Pennsylvania State Library
DOCUMENTS SECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF INTERNAL AFFAIRS

SUMMARIZED RECORD OF DEEP WELLS IN PENNSYLVANIA

By
CHAS. R. FETTKE

TOPOGRAPHIC AND GEOLOGIC SURVEY
BULLETIN M 31
1950

P 38.12

Digitized by the Internet Archive
in 2016 with funding from
This project is made possible by a grant from the Institute of Museum and Library Services as administered by the Pennsylvania Department of Education through the Office of Commonwealth Libraries

https://archive.org/details/summarizedrecord00fett

PENNSYLVANIA
GEOLOGICAL SURVEY
FOURTH SERIES
BULLETIN M 31

SUMMARIZED RECORD OF DEEP WELLS IN PENNSYLVANIA

By
CHAS. R. FETTKE

DEPARTMENT OF INTERNAL AFFAIRS
WILLIAM S. LIVENGOOD, JR., *Secretary*

TOPOGRAPHIC AND GEOLOGIC SURVEY
S. H. CATHCART, *Director*

1950

-10

COPYRIGHTED IN 1950
BY THE
COMMONWEALTH OF PENNSYLVANIA

ADDITIONAL COPIES
OF THIS PUBLICATION MAY BE PURCHASED FROM
BUREAU OF PUBLICATIONS
DEPARTMENT OF PROPERTY AND SUPPLIES
HARRISBURG, PA.

CONTENTS

	Page
Summarized Records of Deep Wells in Pennsylvania, by Chas. R. Fettke	
Abstract	1
Introduction	1
General Statement	1
Acknowledgments	2
Purpose of Report	3
Explanation of Map and Tables	4
Stratigraphy	6
History of Deep-Sand Exploration	13

ILLUSTRATIONS

Plates

Plate 1.	Map showing deep-sand exploration and gas development in Pennsylvania (in 4 sheets)	in pocket
2.	Columnar section showing stratigraphic positions of oil and gas sands	12

Figures

Figure 1.	Columnar section in the Jessie G. Hockenberry Well No.1	11
2.	Annual rate of deep-sand exploration and development	14

TABLES

Table 1.	Deep-well records, Pennsylvania (includes index)	19
2.	Deep wells in New York, Ohio, West Virginia and Maryland	115
3.	General geologic section for north-central and western Pennsylvania	7
4.	Status of deep drilling in Pennsylvania by counties at the end of 1949	15
5.	Classification of deep wells in Pennsylvania according to the deepest formation tested	16
6.	Deep-sand gas fields and pools in Pennsylvania and adjacent areas	17

SUMMARIZED RECORDS OF DEEP WELLS IN PENNSYLVANIA

By Chas. R. Fettke[1]

ABSTRACT

Extensive exploration of formations older than Upper Devonian for oil and gas in Pennsylvania started in 1930. The discovery of relatively large volumes of gas in the Oriskany sandstone of the Lower Devonian in south-central New York and north-central Pennsylvania in 1930 gave impetus to deep-sand exploration. Prior to 1930 only 36 wells had been drilled to the Onondaga limestone of the Middle Devonian or deeper, as compared with 595 at the end of 1949. In Pennsylvania, wells drilled to the Onondaga or deeper are known as deep wells to distinguish them from those that stop in upper Devonian or higher strata.

The report presents some of the more pertinent data relating to deep-sand exploration in Pennsylvania. These data have been collected during the past 25 years in connection with subsurface stratigraphic studies. The locations of the deep wells are shown on a map drawn to a scale of approximately 1 inch to 4 miles. On account of the close spacing it was not possible to include all wells in the producing areas on this map, but locations of all are described in a table. A table of deep-well records for Pennsylvania includes the name of each deep well, the name of the operator, the location of the well with respect to latitude and longitude, date on which the well was completed, its elevation above sea-level, depths at which the more important formations were encountered, total depth, name of deepest formation tested, and a resume of the results obtained. To facilitate evaluating border areas, some data on areas adjacent to Pennsylvania are included on the map and in Table 2 of the report.

Deep wells in Pennsylvania start in strata ranging in age from Upper Devonian to Permian. The deepest formation thus far reached with the drill is the Gatesburg, which is upper Cambrian in age. Of the 595 deep wells completed to date, 285 have produced gas to the extent of nearly 350 billion cubic feet. Most of this gas has come from the Oriskany sandstone, but the Onondaga formation has also contributed substantial amounts. The Salina, Lockport, and Albion have yielded small amounts locally. No commercial oil production has yet been developed in the deeper formations in Pennsylvania.

The W. R. Barton Estate No. 8 well of the Manufacturers Light and Heat Company in Fayette County, drilled to a depth of 10,312 feet, is the deepest well in Pennsylvania and the Appalachian province. To date, 2 wells in Pennsylvania have reached depths greater than 10,000 feet, 3 were stopped between 9,000 and 10,000 feet, and 19 between 8,000 and 9,000 feet.

INTRODUCTION

General Statement

Extensive exploration of formations older than Upper Devonian for gas and oil in Pennsylvania started in 1930. Prior to 1930 practically the

---

[1]Professor of Geology, Carnegie Institute of Technology, and Cooperating Geologist, Pennsylvania Topographic and Geologic Survey.

entire production of gas and oil had been obtained from Upper Devonian and younger strata. Only 36 wells had penetrated rocks deeper than the Upper Devonian series. Of these, all but three had either proved dry or had encountered only shows of gas and oil below the top of the Onondaga limestone. Three produced modest volumes of gas.

The discovery of relatively large volumes of gas in the Oriskany sandstone of the Lower Devonian series in the Wayne-Dundee field in Schuyler County, New York and in the Tioga field in Tioga County, Pennsylvania in 1930 stimulated sufficient interest in the deeper formations to inaugurate an extensive exploratory campaign that has already led to the drilling of 559 deep wells in north-central and western Pennsylvania. Onondaga or deeper wells are usually called deep wells, regardless of their actual depths, to distinguish them from wells that stop in strata of Upper Devonian or younger age. The latter are referred to as shallow wells.

Of the 595 deep wells completed at the end of 1949 in north-central and western Pennsylvania, 285 have yielded gas in commercial quantities. The total volume now produced amounts to approximately 350 billion cubic feet. Although occasional shows of oil have been encountered in the deeper formations, no commercial oil production has yet been developed in them.

Acknowledgments

It is not possible to list the names of the literally hundreds of individuals who contributed data for this report. In practically no instance was information withheld when requested. The writer especially desires to express his thanks to the following companies and individuals for the valuable assistance rendered in connection with the collecting of the data for the map and tables: Appalachian Development Corporation, Belmont Quadrangle Drilling Corporation, Godfrey L. Cabot, Inc., Carnegie Natural Gas Company, Empire Fuel and Gas Company, Hanley and Bird,

Manufacturers Light and Heat Company, North Penn Gas Company, Pennsylvania Gas Company, Penn-York Natural Gas Corporation, Peoples Natural Gas Company, South Penn Oil Company, United Natural Gas Company, Frank A. Boyd, D. E. Conaway, Nathan C. Davies, F. C. Deemer, Frank E. Eckert, Fenton H. Finn, Charles E. Fralich, Jack Gaddess, John T. Galey, George C. Grow, Jr., E. Kent Kane, L. S. Matteson, J. G. Montgomery, Jr., John R. Reeves, D. T. Secor, Harvey J. Simmons, Jr., William E. Snee, Chester D. Whorton, and W. H. Young, Jr.

The writer is indebted to Albert I. Ingham, Geologist, Pennsylvania Topographic and Geologic Survey, for constructive criticism as to arrangement of material, assistance with the checking of map data, and reading proof. Virginia Fairall, Lillian Heeren and Margaret Lang, of the Survey staff, did the drafting. Irene Adamiec, Harry F. Ferguson, W. R. Gallagher, Charles R. Loose, and James E. Werner, part-time employees of the Survey, assisted with the assembling of the data.

PURPOSE OF REPORT

Anticipating the future need of detailed subsurface information, especially with respect to the deeper formations, the Pennsylvania Topographic and Geologic Survey in 1925 engaged the writer to study samples of drill cuttings as they became available from deep wells, so that in time a fund of information would be assembled on the subsurface stratigraphy of the oil and gas region. In recent years companies and individuals engaged in deep drilling in north-central and western Pennsylvania have submitted complete sets of drill cutting samples from most of the deep wildcat wells drilled in the area. Samples currently received are stored temporarily in the geology laboratory at the Carnegie Institute of Technology until examined. After examination they are filed in a well-sample repository in the basement of the Carnegie Museum at Pittsburgh, Pennsylvania where they are available to interested geologists who may wish to examine them.

In connection with the subsurface studies, every effort has been made to secure as complete drillers' logs as possible of all wells in Pennsylvania and adjoining areas that have reached the Onondaga limestone or deeper formations. The location and at least a partial record has now been obtained for almost every deep well in north-central and western Pennsylvania.

The purpose of the present report is to make available some of the more pertinent data, collected in connection with the subsurface studies, which relate to deep-sand exploration in Pennsylvania. A map has been prepared showing the locations of the deep wells; skeletal logs and other data for the wells have been assembled in tabular form.

EXPLANATION OF MAPS AND TABLES

The map, Plate 1 (in pocket), in 4 sheets, covers the area bounded by latitude 39° 30' N. and 42° 30' N. and longitude 76° 15' W. and 80° 45' W. The 41° N. parallel of latitude and the 78° 30' W. meridian of longitude have been used as dividing lines. A scale of 1:250,000, or approximately 1 inch to 4 miles, has been used. State and county boundaries, shown in heavy broken lines, have been superimposed on a grid pattern showing the 15-minute quadrangles of the U. S. Geological Survey subdivided into 5-minute rectangles. The names of the quadrangles appear in the upper left hand corner. In addition to the quadrangles in Pennsylvania, two tiers of quadrangles are included to the north in New York State, one tier to the west in Ohio and West Virginia, and one tier to the south in West Virginia and Maryland.

Well locations were first spotted on the 15-minute quadrangle topographic maps of the U. S. Geological Survey from location plats, farm maps, visits to the field, or other sources of information. The wells in each quadrangle were then numbered consecutively, starting with 1 in the northwest corner and proceeding from west to east in strips one mile wide. Positions with respect to the nearest north, south, east, and west 5-minute

rectangle boundaries were measured to a hundredth of a mile. The locations were then transferred to the 1:250,000 scale map on which the results obtained and the deepest formation tested by each well are shown by suitable symbols. On account of the close spacing, it was not possible to include all wells in the producing areas on this map, but their records and locations are given in Table 1 (pp.19-114).

Summarized records of the Pennsylvania deep wells have been assembled in Table 1 and grouped by counties, which are arranged in alphabetic order. Under each county, the listing is by quadrangle name and number in the quadrangle. Starting with the quadrangle in the northwest corner of the county, the order of arrangement is from west to east, repeating with the next tier of quadrangles to the south and so on until the entire county is covered. The data given under each well include name of the well, name of the operator, township, location with respect to latitude and longitude, date on which well was completed, its elevation above sea level, depths at which the more important formations were encountered, total depth, name of deepest formation tested, and a resume of the results obtained. In the index accompanying Table 1 the wells are arranged in alphabetic order by farm names. The sheet number of the table on which the record appears is placed opposite the well name.

The wells outside Pennsylvania, shown on the map (pl. 1) are listed in Table 2 (pp.115-148). The farm and the operator's name, elevation, total depth, and deepest formation tested are given for each well. The wells are grouped by quadrangles and the system of designating individual wells is the same as for Pennsylvania. The list starts with the western quadrangle of the second tier of quadrangles north of the New York-Pennsylvania line, proceeds from west to east to the eastern limit of the map and repeats with the first tier below. It then proceeds to the tier in Ohio and West Virginia along the west line of Pennsylvania, follows this from

north to south, and finally takes in from west to east the tier in West Virginia and Maryland along the southern boundary of Pennsylvania.

The data for the areas in the adjacent states are not as complete as for Pennsylvania. This is particularly true for the northern parts of Chautauqua and Cattaraugus counties and the southern part of Erie County, New York. Some information, however, has been included in Table 2 to aid in evaluating border areas and studying such geological features as depositional and structural trends.

The elevations given in Tables 1 and 2 are those furnished by the operators. In most cases these were obtained with a spirit level. Some, however, represent stadia measurements, and a few are altimeter or aneroid barometer observations.

STRATIGRAPHY

The deep wells in Pennsylvania are located in the Allegheny Plateau province northwest of the Allegheny Front. They start in strata ranging in age from Upper Devonian to Permian, and many of them pass through the stratigraphic interval of the shallow producing sands of the oil and gas belt of western Pennsylvania. The Jesse B. Miller well, now being drilled in Bedford County east of the Allegheny Front, is an exception. It starts in beds of Lower Devonian age. At present the Gatesburg is the oldest formation reached by the drill in western Pennsylvania. This formation is Upper Cambrian in age.

The various formations that underlie north-central and western Pennsylvania are arranged in order of succession, with the oldest at the bottom, in the general geologic section, Table 3. A brief description of each formation is included, and the grouping into series and systems is shown. A columnar section of the Jessie G. Hockenberry well in northwestern Butler County, the deepest well stratigraphically in western Pennsylvania, is shown graphically in Figure 1. That part of the column which

TABLE 1

GENERAL GEOLOGIC SECTION FOR NORTH-CENTRAL AND WESTERN PENNSYLVANIA

SYSTEM	SERIES	GROUP OR FORMATION	DESCRIPTION	APPROXIMATE THICKNESS FEET
PERMIAN	Dunkard	Greene	Predominately shale, in part red, sandy shale, and shaly sandstone; a few massive sandstones; several thin coal and fresh-water limestone beds	1100
		Washington	Shales, sandstones, and thin beds of coal and fresh-water limestone	
PENNSYLVANIAN		Monongahela	Shale, and fresh-water limestone, subordinate sandstone, several workable coal beds. Waynesburg coal at top and Pittsburgh coal at base	330
		Conemaugh	Shale, in part red, and subordinate sandstone; several thin coal and fresh-water and marine limestone beds; contains Murphy, Little Dunkard and Big Dunkard sands in descending order in southwestern district	600
		Allegheny (restricted)	Shale and subordinate sandstone and limestone; several workable coal and fire clay beds. Upper Freeport coal at top and Lower Kittanning coal at base	175
	Pottsville		Massive medium- to coarse-grained sandstone and subordinate shale, clay, and limestone. Contains First Gas, First and Second Salt, and Maxton sands in southwestern district	315
Unconformity			An erosional unconformity bevels successively younger southerly dipping Mississippian strata in going from north to south in western Pennsylvania. In McKean County, Pottsville sandstone rests upon the Knapp formation, the lowest member of the Mississippian system; while in Fayette County, the Pottsville overlies the Mauch Chunk red shale, the highest member	

Table 1 (2)

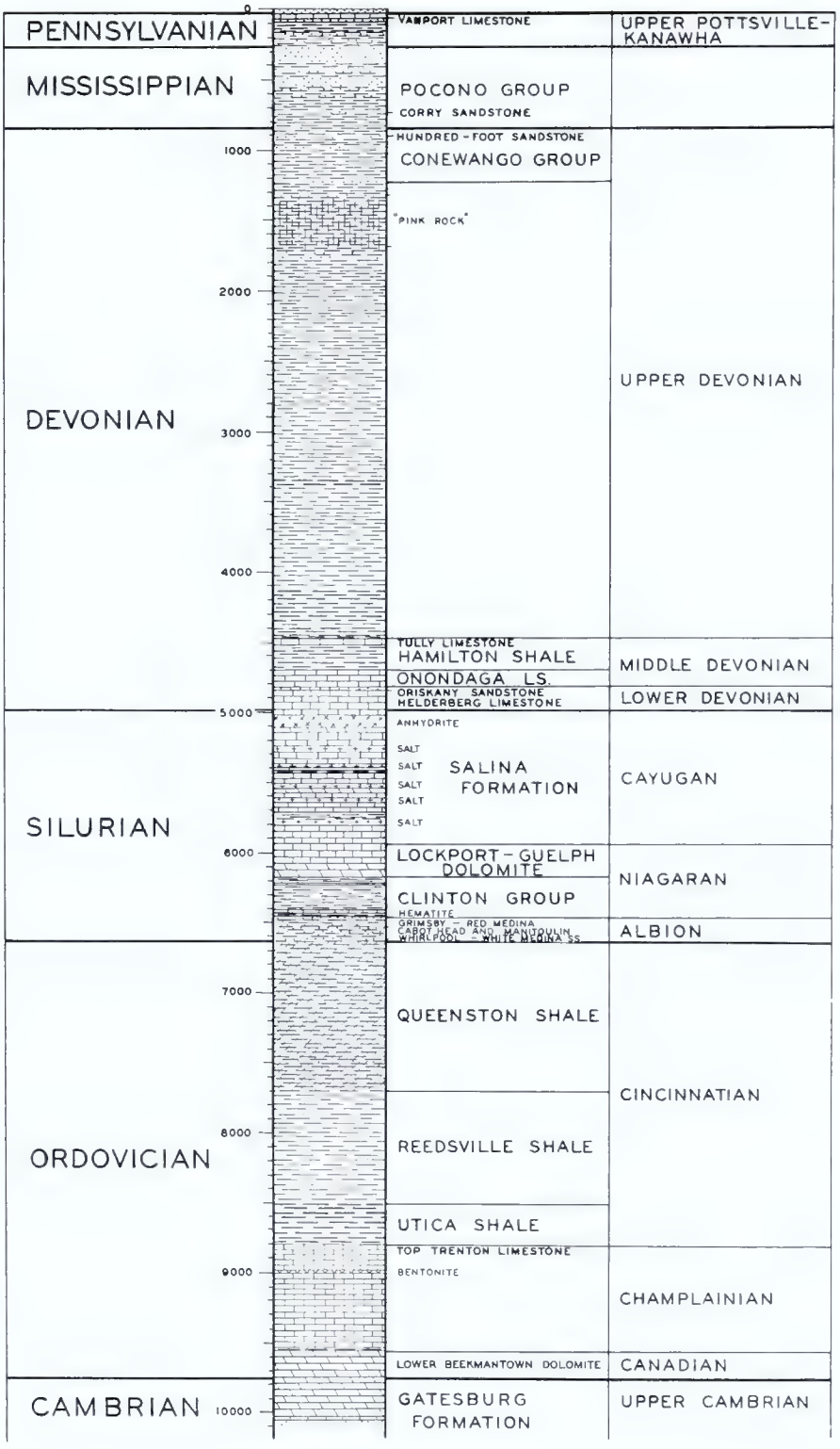
SYSTEM	SERIES	GROUP OR FORMATION	DESCRIPTION	APPROXIMATE THICKNESS FEET
MISSISSIPPIAN		Mauch Chunk	Gray and red shale, subordinate fine-grained sandstone	0-100
		Greenbrier	Consists in descending order of limestone, a shale break, and the Loyalhanna sandy Limestone	0-80
		Pocono	Fine- to coarse-grained massive sandstone and shale. Knapp sandstone and shale at base. Contains Big Injun, Squaw, Berea and Murrysville sands in southwestern district	570-900
DEVONIAN	Upper Devonian	Conewango	Gray shale and subordinate fine- to coarse-grained light gray sandstone; red shale prominent in lower part in northern district; some purplish-red shale in middle and southwestern districts. Contains the Venango First, Second and Third sands in the Middle district, Gantz, Fifty-Foot, Upper and Lower Nineveh, Gordon, and McDonald Fourth and Fifth sands in the southwestern district	3300-6000 from northwest to southeast
		Conneaut	Gray and purplish-gray shale and sandy shale, subordinate sandstone. Contains the Bradford First or Glade sand in the northern district, Queen sand in the middle district, Bayard and Elizabeth sands in the southwestern district	
		Canadaway	Gray shale and sandy shale, subordinate fine- to coarse-grained light gray sandstone and fine-grained chocolate-brown sandstone. Contains the Clarendon, Cherry Grove, Bradford Second, Cooper, Bradford Third, Kane and Haskill sands in the northern district, Speechley sand in the middle district, Speechley and Bradford sands in the southwestern district	
		Chemung	Gray shale and sandy shale, subordinate fine-grained sandstone	
		Portage	Gray shale and sandy shale	
		Genesee	Dark gray and black shale	

SYSTEM	SERIES	GROUP OR FORMATION	DESCRIPTION	APPROXIMATE THICKNESS FEET
DEVONIAN	Middle Devonian	Tully	Argillaceous limestone	0-150
		Hamilton	Dark gray and black shale, in part calcareous	140-1600
		Onondaga	Cherty limestone and chert, subordinate dark, silty, shaly and glauconitic beds. Major source of gas in Summit field	30-290
	Lower Devonian	Oriskany	Medium-grained quartz sandstone, locally calcareous. Source of gas in north-central Pennsylvania and in South Beaver and Summit fields in southwestern Pennsylvania	0-110
		Helderberg	Non-magnesian, in part cherty, frequently very fossiliferous limestone	0-350
SILURIAN	Upper Silurian or Cayugan	Cobleskill	Argillaceous magnesian limestone	25-100
		Salina	Interbedded, dense, argillaceous, magnesian limestone, gray shales and clays for the most part either calcareous or dolomitic. Numerous interbedded layers of anhydrite and salt. Small gas production in McCance field	450-2800
	Middle Silurian or Niagaran	Lockport	Very fine, crystalline, brownish-gray to very dark grayish brown relatively pure dolomite. A salt-water zone frequently present. Small gas production in Henderson field	240-320
		Clinton	Shale, dolomitic shale, and subordinate dolomite	100-300
	Lower Silurian or Albion	Thorold	Fine-grained, light-gray sandstone	0-30
		Grimsby or Red Medina	Red sandstone and shale. Small gas production in northwestern Pennsylvania	70-220
		Cabot Head Manitoulin	Gray shale and subordinate very fine-grained light-gray sandstone	
		Whirlpool or White Medina	Fine-grained light-gray sandstone. Small gas production in northwestern Pennsylvania	

Table 1

Table 1 (4)

SYSTEM	SERIES	GROUP OR FORMATION	DESCRIPTION	APPROXIMATE THICKNESS FEET
ORDOVICIAN	Upper Ordovician or Cincinnatian	Queenston	Red shale, in part silty and sandy	850-1200
		Oswego	Very fine-grained gray sandstone	0-60
		Reedsville	Gray shale	700-800
		Utica	Black shale	100-300
	Middle Ordovician or Champlainian	Trenton and Black River	Limestone, in part argillaceous, and either non-magnesian or only slightly magnesian	650-750
	Unconformity		Approximately 4500 feet of Lower Ordovician strata present in central Pennsylvania are missing in western Pennsylvania	
	Lower Ordovician or Canadian	Lower Beekmantown	Fine- to medium, crystalline, light-gray dolomite	0-190
CAMBRIAN	Upper Cambrian	Gatesburg	Fine, crystalline, light brownish-gray dolomite with siliceous-oolite zone near middle. Grades into fine, crystalline, sandy dolomite and fine- to medium-grained, light-gray, somewhat dolomitic sandstone in lower part	350+



COLUMNAR SECTION

WESTERN PENNSYLVANIA

OBTAINED IN JESSIE G. HOCKENBERRY WELL NO. 1
MANUFACTURERS LIGHT & HEAT COMPANY
MERCER TOWNSHIP, BUTLER COUNTY, PA

Figure 1

CHAS. R. FETTKE 1948

contains the shallow oil and gas sands is shown in more detail for the northern, middle, and southwestern districts of the oil and gas belt in Plate 2.

The depths at which the more important formations were encountered in the deep wells are shown in Table 1. Those indicated with an asterisk were obtained from well-sample records prepared by the writer;[2] the others were taken from drillers' logs.

The Oriskany sandstone outcrops shown on the map were taken from the Geologic Map of Pennsylvania published by the Pennsylvania Topographic and Geologic Survey in 1931. The first outcrops appear immediately southeast of the Allegheny Front, and outcrops are repeated many times in the Ridge and Valley province where the rocks are closely folded. Areas northwest of the Allegheny Front where the Oriskany sandstone is indicated probably absent were delineated on the basis of information obtained from well-sample studies and from drillers' logs. Although it is believed that a hiatus occurs at the Oriskany horizon, and that the formation is absent over most of the areas marked, it is possible that over parts of these areas the Oriskany may be represented by a calcareous facies difficult to differentiate in drill cuttings from the underlying Helderberg limestone.

The major portion of the gas obtained to date in Pennsylvania from the deeper formations has come from the Oriskany sandstone. The Onondaga formation, however, has produced substantial quantities locally. The Salina formation has yielded a little gas in one well. Commercial production from the Lockport dolomite, likewise, has been confined to a single well. The Grimsby, or Red Medina, and the Whirlpool, or White Medina, of the Albion series have contributed only small amounts.

---

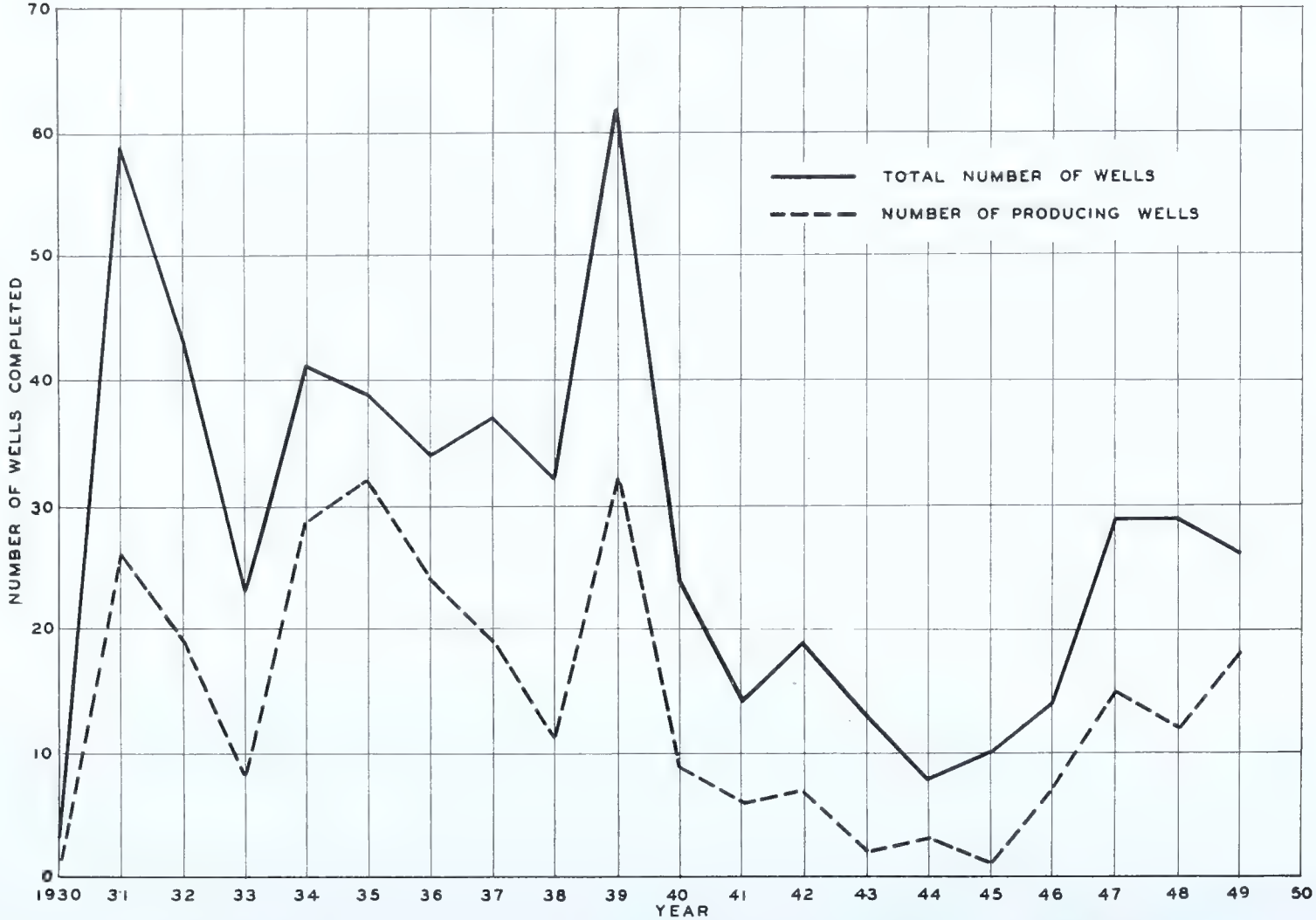
[2] Well-Sample Records of selected deep wells in the belt across northern Pennsylvania are being prepared for publication. A list of available well-sample records may be obtained on request from the Topographic and Geologic Survey.

FOLD
OUT

HISTORY OF DEEP-SAND EXPLORATION

Attempts to discover oil and gas in the more deeply buried formations under western Pennsylvania, that is those below the relatively shallow and extensively drilled Upper Devonian sands, have been made from time to time since the late 80's. The well of the Presque Isle Natural Gas Company, drilled to a depth of 4,460 feet between October 1887 and January 1889 in the City of Erie, was one of the earliest of these. The well penetrated the Trenton limestone to a depth of 210 feet and remained the only well to reach this formation in western Pennsylvania until 1941. The R. A. Geary well of the Peoples Natural Gas Company, 5 miles northwest of McDonald in Washington County, was drilled in 1917 to a depth of 7,248 feet into strata of Salina age. At that time it was the deepest well in the United States and second deepest in the world. In 1925 the same company's Booth and Flinn No. 2 well at McCance, Westmoreland County, also bottomed in the Salina formation at a depth of 7,756 feet, had the distinction of being the deepest well in the world. By 1930 at least 36 wells had been drilled to the Onondaga or deeper.

Interest in the deeper sands was greatly stimulated in March 1930 by the discoveries of relatively large volumes of gas in the Oriskany sandstone in the Wayne-Dundee field in Schuyler County, New York and in the Tioga field in Tioga County, Pennsylvania in September 1930. The extensive drilling campaign which followed resulted in the discovery of 16 Oriskany gas pools in north-central Pennsylvania, and 4 Onondaga, 4 Oriskany, 1 Salina, 1 Lockport, and 1 Albion gas pools in western Pennsylvania. Deep-drilling activity by years since 1930 is shown graphically in Figure 2. Drilling by counties is shown in Table 4. A total of 595 deep wells had been completed in north-central and western Pennsylvania by the end of 1949, of which 285 yielded gas in commercial quantities. The total volume of gas produced from the deeper formations had reached 350 billion cubic feet by



ANNUAL RATE OF DEEP SAND EXPLORATION AND DEVELOPMENT

Figure 2

TABLE 4. STATUS OF DEEP DRILLING IN PENNSYLVANIA BY COUNTIES AT END OF 1949

County	Total Number Wells	Gas Wells	Dry Holes
Allegheny	1	0	1
Armstrong	2	0	2
Beaver	14	5	9
Bradford	5	0	5
Butler	6	0	6
Cameron	2	1	1
Clarion	1	0	1
Clearfield	1	0	1
Clinton	1	1	0
Crawford	25	1	24
Elk	3	0	3
Erie	36	5	31
Fayette	40	27	13
Forest	2	0	2
Greene	1	0	1
Jefferson	2	0	2
Lawrence	6	0	6
McKean	14	0	14
Mercer	9	1	8
Potter	246	162	84
Somerset	1	0	1
Tioga	147	77	70
Venango	2	0	2
Warren	15	1	14
Washington	4	0	4
Westmoreland	9	4	5
TOTAL	595	285	310

TABLE 5
CLASSIFICATION OF DEEP WELLS IN PENNSYLVANIA
ACCORDING TO DEEPEST FORMATION TESTED

Name of formation	Total number of wells	Number of wells producing gas
Onondaga	21	20
Oriskany	485	260*
Helderberg	19	0
Salina	11	1
Lockport	6	1
Albion	47	3
Oswego	1	0
Trenton	2	0
Beekmantown	1	0
Gatesburg	2	0

*Seven of these produced from Onondaga also.

the end of 1949.

The W. R. Barton Estate No. 8 well of the Manufacturers Light and Heat Company in Fayette County, drilled to 10,312 feet, is the deepest well in Pennsylvania and in the entire Appalachian province. It has the additional distinction of being the deepest hole in the world to be drilled entirely with cable tools. The Jay Childs well of the Ohio Oil Company in northwestern Erie County and the Jessie G. Hockenberry well of the Manufacturers Light and Heat Company in northwestern Butler County are the deepest stratigraphically. Both were bottomed in a sandstone member of the Gatesburg formation of the Upper Cambrian. A classification of the deep wells in Pennsylvania according to the deepest formation tested is given in Table 5. The names of the fields and pools in which production has been obtained, together with the names of the producing formations, are listed in Table 6. To date, 2 wells in Pennsylvania have reached depths greater than 10,000 feet, 3 were stopped between 9,000 and 10,000 feet, and 19 between 8,000 and 9,000 feet.

TABLE 6. DEEP-SAND GAS FIELDS AND POOLS IN PENNSYLVANIA AND ADJACENT AREAS

County	Name of field or pool	Producing Formation	County	Name of field or pool	Producing Formation
	PENNSYLVANIA			NEW YORK	
Beaver	South Beaver	Oriskany	Allegany	Allen*	Oriskany
Clinton	Leidy	Oriskany	Allegany	Beech Hill	Oriskany
Crawford	Beaver Creek	Oriskany	Allegany	Gilbert**	Tully
Erie	Corry	Albion	Allegany	Independence	Oriskany
Erie	Meade	Oriskany	Allegany	North State Line	Oriskany
Fayette	North Summit	Onondaga and Oriskany	Cattaraugus	Dayton	Albion
Fayette	South Summit	Onondaga and Oriskany	Cattaraugus	Leon	Albion
Mercer	Henderson	Lockport	Cattaraugus	Perrysburg	Albion
Potter	Bingham Center	Oriskany	Cattaraugus	Persia	Albion
Potter	Champlin	Oriskany	Cattaraugus	Skinner Hollow	Albion
Potter	East Fork-Wharton	Oriskany	Chautauqua	Brocton	Albion
Potter	Ellisburg	Oriskany	Chautauqua	Cassadaga	Albion
Potter	Harrison	Oriskany	Chautauqua	Charlotte	Albion
Potter	Hebron	Oriskany	Chautauqua	Cherry Creek	Albion
Potter	North Sharon	Oriskany	Chautauqua	Lamberton	Albion
Potter	South Sharon	Oriskany	Chautauqua	Sheridan	Albion
Potter	South State Line	Oriskany	Chautauqua	Wango	Albion
Potter	Ulysses	Oriskany	Chautauqua	Villenova	Albion
Potter	West Bingham	Oriskany	Chautauqua	Westfield	Albion
Tioga	Brookfield	Oriskany	Chemung	Elmira	Oriskany
Tioga	East Tioga	Oriskany	Erie	Zoar	Onondaga and Albion
Tioga	Meeker	Oriskany	Schuyler	Wayne-Dundee	Oriskany
Tioga	Sabinsville	Oriskany	Steuben	Bath	Oriskany
Tioga	West Tioga	Oriskany	Steuben	Greenwood	Oriskany
Westmoreland	Dry Ridge	Oriskany	Steuben	Howard	Oriskany
Westmoreland	McCance	Onondaga and Salina	Steuben	Jasper	Oriskany
Westmoreland	Piper	Onondaga	Steuben	Tuscarora	Oriskany
			Steuben	West Union	Oriskany
	OHIO		Steuben	Woodhull	Oriskany
Ashtabula	Conneaut	Oriskany and Albion	Tompkins	Danby	Oriskany
Columbiana	Jenkins	Oriskany			
Columbiana	Madison	Oriskany		WEST VIRGINIA	
Trumbull	Vernon*	Oriskany	Hancock	Ramsay	Oriskany

*A little oil with gas
**Gas and distillate

TABLE 1

DEEP WELL RECORDS, PENNSYLVANIA

Well Records: pages 20 to 106

Index to Wells: pages 107 to 114

SHEET 1

	ALLEGHENY COUNTY				ARMSTRONG COUNTY				
QUADRANGLE	New Kensington				+ Kittanning	+ Rural Valley			
MAP NUMBER	1				1	1			
NAME OF WELL	Fred Backhaus 5				W.T. Beidenbach 1	Lowry M. Martin 4			
OPERATOR	South Penn Oil				T.W. Phillips G. and O. and John T. Galey	Peoples Natural Gas			
TOWNSHIP	West Deer				West Franklin	Wayne			
LATITUDE	1.35 mi. N. 40°35'				2.46 mi. S. 40°55'	1.98 mi. S. 40°55'			
LONGITUDE	.16 mi. E. 79°55'				1.55 mi. E. 79°40'	.96 mi. W 79°20'			
DATE COMPLETED	8-4-38				9-29-41	10-20-39			
ELEVATION	1190				1170	1585			
UPPER FREEPORT COAL	246-254								
BEREA-CORRY									
MURRYSVILLE						1141-1218			
TULLY	5950-				5335-	6100-6183			
ONONDAGA	6340-6527				5773-5907	6565-6682			
ORISKANY	6527-6555				Sandstone absent	Sandstone absent			
HELDERBERG	6555-6760								
SALINA	6845-								
TOTAL DEPTH	7471				6000	6891			
DEEPEST FORMATION TESTED	Salina				Oriskany	Oriskany			
RESULT	Dry				Dry No sandstone at Oriskany horizon	Dry No sandstone at Oriskany horizon			

+ Skeletal log based on drillers' record. Complete or nearly complete
either at Carnegie Institute of Technology or at Carnegie Museum Pittsburgh 13, Pa

Table 1 (1)

TABLE I, SHEET 2

BEAVER COUNTY

QUADRANGLE	New Castle	New Castle	New Castle	New Castle	New Castle	Zelienople	Beaver	Beaver	Beaver
MAP NUMBER	5	6	7	8	9	2	1	2	3
NAME OF WELL	Beaver Falls Airport Corporation 1	James Smith 1	Charlotte R. Colvin 1	Jas. L. Tennis Hrs. 1	John T. Galey, Trustee 1	Elmer Pflug 1	Eliza Allen 1	Dollie and Olive Funkhauser 1	C.C. Kennedy 1
OPERATOR	A.J. Wise Sr. and Jr.	T.W. Phillips Gas and Oil	James H. Duff and John T. Galey	James H. Duff and John T. Galey	James H. Duff and John T. Galey	L.D. McMichael et al	James H. Duff and John T. Galey	Hanley and Bird	Beaver Hill Oil and Gas
TOWNSHIP	South Beaver	South Beaver	South Beaver	South Beaver	South Beaver	New Sewickley	South Beaver	South Beaver	South Beaver
LATITUDE	1.39 mi. N 40°45'	1.5 mi. N. 40°45'	.53 mi. N. 40°45'	on 40°45'	.44 mi. N. 40°45'	.13 mi. N. 40°45'	.44 mi. S. 40°45'	.91 mi. S. 40°45'	.21 mi. S 40°45'
LONGITUDE	.08 mi. W 80°25'	2.09 mi. E 80°30'	2.19 mi. E 80°30'	2.11 mi. W. 80°25'	1.44 mi. W. 80°25'	.92 mi. W. 80°10'	2.13 mi. E. 80°30'	1.98 mi. W. 80°25'	.35 mi. W. 80°25'
DATE COMPLETED	6-7-37	3-21-38	10-13-35	4-26-40	7-26-37	7-13-41	10-29-38	2-2-39	3-6-46
ELEVATION	1153	925	907	983	1189	1157	1153	1198	1240
BEREA	832-888	630-690 Show OIL, 635	618-658 Show of OIL and GAS	684-720	870-927 Show OIL, 890-896	1090-1115	857-897 Show OIL, 864	920-968 Show OIL 940	948-965
MURRYSVILLE	888-990	704-780 Show GAS, 708	669-737 S.W. and show GAS at 725	750-797 S.W. 768-777	966-999 Show of GAS and 1½ boiler S.W. per hr.	1135-1235 S.W. at 1150 and 1210	908-957 Show GAS 911-926 Hole full S.W. 935	985-1038 Show GAS, 987 Hole full S.W. 1010	
TULLY	4450-	4167-	4175-	4243-	4421-		4415-		
ONONDAGA	4604-4813	4338-4552 Show GAS, 4369	4331-4542	4405-4599	4606-4817	5280-5437	4566-4770	4660-4856	4708-
ORISKANY	4813- S.W. at 4815 and small show GAS S.W. rose 600'	4552- 4,550 MCF GAS, R.P. 1825 psi	4542- 787 MCF GAS, 6 gal S.W. per hr. R.P. 1870 psi	4599-4670 3,000 MCF GAS 4607 4613	4817- GAS, 4819-4824	5437- Show GAS, 5440 S.W. rose 3000' 5445	4770- 3,250 MCF GAS R.P. 1650 psi	4856- S.W. at 4862 rose 600 ft.	
SALINA				4930-6015 Salt 5113-5160 5176-5197 5513-5523					
LOCKPORT				6015-6293 Very slight show GAS 6260					
ALBION — RED MEDINA (GRIMSBY)				6588-6663					
ALBION — WHITE MEDINA (WHIRLPOOL)				6663-6761					
QUEENSTON				6761-					
TOTAL DEPTH	4824	4558	4551	6822	4824	5449	4782	4864	4742
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Albion	Oriskany	Oriskany	Oriskany	Oriskany	Onondaga
RESULT	GAS pockets at 4301, 4360, 4445, 4474, 4505, 4550, 4569, 4571, 4573, 4584 S.W. and show GAS, Oriskany	GAS pockets 4168-4178, 4292, 4314, 4325, 4336, 4369 4,550 MCF GAS in Oriskany	GAS pockets 4300-4304 4310-4320 787 MCF GAS from Oriskany, a little S.W.	3,000 MCF GAS in Oriskany Dry in Albion	GAS Pockets 4437, 4451, 4457, 4601 and 4603 GAS in Oriskany	11 GAS pockets, 5050-5228 Show GAS in Oriskany S.W. from Oriskany rose 3,000 ft	GAS pockets, 4400, 4405, 4415, 4539 4542, 4546, 4564 3,250 MCF GAS from Oriskany	GAS pockets, 4493, 4500, 4639, 4642, 4645 S.W. in Oriskany	Abandoned in Onondaga

TABLE I, SHEET 3

BEAVER COUNTY

QUADRANGLE	Beaver	Beaver	Beaver	Beaver	Sewickley				
MAP NUMBER	4	5	6	7	1				
NAME OF WELL	Cunningham-Zladovich 1	Abbie Linnenbrink et al 1	J P Koehler Est 1	William Wilsman 1	Spang Chalfant 1				
OPERATOR	South Penn Oil	Columbian Fuel	St Joseph Lead	Wittmer Oil and Gas et al	National Supply				
TOWNSHIP	Ohio	Rochester	Center	Independence	Harmony				
LATITUDE	2.44 mi S 40°45'	2.55 mi N 40°40'	.01 mi N. 40°40'	.23 mi S. 40°35'	1.70 mi N. 40°35'				
LONGITUDE	1.12 mi E 80°30'	.71 mi W 80°15'	.10 mi E 80°20'	.07 mi E 80°20'	1.16 mi. E 80°15'				
DATE COMPLETED	8-14-43	1939	2-12-42	1936	4-7-44				
ELEVATION	1155	889	1072	814	767				
BEREA	929-970 Show OIL and GAS	865-967 SW, 956	1025-1039		956-975				
MURRYSVILLE	970-1074 Show GAS 978	967-1030 Hole full SW 975	1120-1203 1bbl SW per hr. 1125	1090-1130	1050-1081				
TULLY		4788-	4940-	4920-	5063-				
ONONDAGA	4650-4846	4979-5140	5145-5312	5132-5314	5315-5471				
ORISKANY	4846- Show GAS 4846 SW rose 4100 ft	5140-5179 ½ bbl. SW per hr	5312- 20 gal SW per hr 5319-5330	5314- Very small show GAS Hole full SW	5471- SW, 5473-5482 rose 1700 ft				
SALINA									
LOCKPORT									
ALBION — RED MEDINA (GRIMSBY)									
ALBION — WHITE MEDINA (WHIRLPOOL)									
QUEENSTON									
TOTAL DEPTH	4862	5295	5345	5320	5484				
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany				
RESULT	GAS pockets 4480, 4516, 4525, 4614, 4616, 4620, 4676 Show GAS in Oriskany SW rose 4100 ft	½ bbl. SW. per hr. from Oriskany	12 GAS pockets 4931-5118 20 gal. SW. per hr. from Oriskany	Very small show GAS in Top Oriskany Hole full of SW	SW in Oriskany rose 1700 ft.				

Table 1 (3)

BEDFORD COUNTY

QUADRANGLE	Bedford					
MAP NUMBER	1					
NAME OF WELL	Jessie B. Miller 1					
OPERATOR	Tidewater, South Penn Oil, Sloan and Zook					
TOWNSHIP	Napier					
LATITUDE	1.60 mi. N. 40°05'					
LONGITUDE	1.89 mi. W. 78°35'					
DATE COMPLETED						
ELEVATION	1666					
ORISKANY						
HELDERBERG						
KEYSER						
TONOLOWAY						
WILLS CREEK						
MCKENZIE						
CLINTON						
TUSCARORA						
JUNIATA						
OSWEGO						
REEDSVILLE						
TRENTON						
BEEKMANTOWN						
GATESBURG						
TOTAL DEPTH						
DEEPEST FORMATION TESTED						
RESULT						

TABLE I, SHEET 5

BRADFORD COUNTY

QUADRANGLE	+ Troy	+ Troy	Sayre	+ Sayre	+ Sayre	+ Towanda	Towanda	+ LeRaysville	✳ Monroeton
MAP NUMBER	1	2	1	2	3	1	2	1	1
NAME OF WELL	S G Braisted 1	George Olsen 1	Clarence Campbell 1	C M Kennedy 1	Chas Dickenson 1	C V Morris 1	Bradford County Agricultural School 1	P M Brown 1	G H Hettick 1
OPERATOR	Mosherville Oil and Gas	Jas. H Duff et al.	Columbian Carbon	W.W.Keefer et al.	Penn-York Natural Gas	Springbrook Water	Penn-United Gas	Penn-York Natural Gas	Penn-York Natural Gas
TOWNSHIP	Wells	Columbia	Ridgebury	Ulster	West Burlington	Orwell	Wysox	Stevens	Towanda
LATITUDE	1.26 mi. S. 42°00'	1.86 mi. S 41°55'	1.28 mi. S 42°00'	.82 mi. S 41°50'	2.60 mi. S 41°50'	2.86 mi. N 41°50'	3 mi. N 41°45'	15 mi. N 41°45'	92 mi. S 41°45'
LONGITUDE	.22 mi. W 76°55'	2.14 mi. W 76°50'	.68 mi. E. 76°45'	1.68 mi. W. 76°30'	.51 mi. W. 76°40'	1.28 mi. E. 76°20'	26 mi. W 76°25'	.18 mi. E 76°10'	.33 mi. E 76°30'
DATE COMPLETED	7-18-31	11-27-31	10-22-34	7-26-32	3-3-32	4-21-32	1931	6-9-32	1-30-32
ELEVATION	1599	1856	1345	1445	1245	925	761	1260	1280
TULLY		4374-4478	3047-3145	4315-4405	4930-5088	2585-2676	3315-3440	4225-4343	3215-3344
ONONDAGA	4705-4729	5585-5646	4400-4455	5480-5510		4384-	5150-		4935-
ORISKANY	4729-4746	5646	4455-4505	5510-5520					5164-
HELDERBERG									
TOTAL DEPTH	4750	5700	4512	5530	5450	4420	5307	6290	5227
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Tully	Tully	Tully	Tully	Oriskany
RESULT	Dry in Oriskany, no salt water	Oriskany very hard; no gas or salt water	Oriskany tight, no gas or salt water	Dry in Oriskany no salt water	25 MCF GAS at 4257 after shot Abandoned	Dry Abandoned above Oriskany	Dry Abandoned above Oriskany	Show of GAS at 5650; abandoned above Oriskany	Dry in Oriskany no salt water

BUTLER COUNTY

QUADRANGLE	Mercer	Hilliards	Hilliards	Zelienople	Zelienople	Zelienople
MAP NUMBER	2	1	2	3	4	5
NAME OF WELL	Jessie G Hockenberry 1	Mary Becker 1	Fowler-Campbell 1	Lehigh Portland Cement Co. 1	Perry S. Davis 1	Paul Fanker 1
OPERATOR	Manufacturers Light and Heat	Hill Oil and Gas	South Penn Oil	Jas H Duff and J T Galey	Wittmer O and G and T.W. Phillips G. and O	American Gas
TOWNSHIP	Mercer	Cherry	Concord	Muddy Creek	Franklin	Jackson
LATITUDE	1.60 mi N. 41°05'	.69 mi N 41°05'	1.58 mi N 41°00'	2.42 mi S 41°00'	1.76 mi S 40°55'	1.53 mi S 40°50'
LONGITUDE	2.13 mi W 80°00'	1.70 mi E 80°00'	1.57 mi E 79°50'	1.04 mi E. 80°10'	1.96 mi E 80°05'	1.24 mi E 80°10'
DATE COMPLETED	11-10-44	1-22-49	1939	2-11-35	1936	12-10-36
ELEVATION	1306	1198	1233	1164	1291	1085
VANPORT	28-56		115-141		438-	
BEREA - CORRY	726-744		868-887	657-696	1125-1180	942-987
MURRYSVILLE	-821		-983	764-778	1200-1208	1026-1106 Salt water at 1033
TULLY	4482-	4480-	5084-5154	4473-	5212-	4948-
ONONDAGA	4702-4828	4698-4817	5343-5447	4669-4809	5420-5541	5182-5338
ORISKANY	4828-4841	4817-4853	5447-5460	4809-4842 Show of GAS 4811	5541-5563 35 M.C.F GAS	5338-5365 Show of GAS, salt water
HELDERBERG	4841-4982		5460-	4842-5010 16 boilers S.W. at 4850 exhausted	5563-	5365-
SALINA	4995-5935 Salt beds 5248-5796			5058-		
LOCKPORT	5935-6185					
ALBION — RED MEDINA (GRIMSBY)	6453-6521					
ALBION — WHITE MEDINA (WHIRLPOOL)	6624-6633					
QUEENSTON	6633-7700					
TRENTON	8812 - Show of GAS at 9505-9510					
BEEKMANTOWN	9553-9740					
GATESBURG	9740- Show of GAS 9746-9771 Salt water in sandstone at 10,092					
TOTAL DEPTH	10,096	4889	5549	5170	5587	5370
DEEPEST FORMATION TESTED	Gatesburg	Oriskany	Oriskany	Helderberg	Oriskany	Oriskany
RESULT	Show of GAS at 9505-9510 in Trenton Show of GAS at 9746-9771 in Gatesburg 1 boiler S.W. per hr at 10,092 in Gatesburg	Dry	Dry	GAS pockets at 4458, 4622 and 4627 Show of GAS and a little salt water at 4811 feet in Oriskany	Show of GAS in Oriskany	Salt water and show of GAS in Oriskany

TABLE I, SHEET 7

	CAMERON COUNTY				CLARION COUNTY				
QUADRANGLE	Colegrove	Driftwood			Clarion				
MAP NUMBER	1	6			1				
NAME OF WELL	First National Bank of Emporium 1	Adeline Logue 1			Bryner, et al. 33				
OPERATOR	Tioga Natural Gas	H.K Dougherty et al.			Dempseytown Gas				
TOWNSHIP	Shippen	Grove			Elk				
LATITUDE	.60 mi N 41°35'	1.67 mi S 41°30'			1.84 mi S 41°15'				
LONGITUDE	1.03 mi E 78°20'	1.61 mi E 78°05'			1.38 mi W. 79°25'				
DATE COMPLETED	1-4-35	11-1-49			1-24-38				
ELEVATION	1559	1006			1436				
BEREA - CORRY									
MURRYSVILLE									
TULLY	4335-4373	4700-			5217-5250				
ONONDAGA	4865-4900	5378-5389			5518-5592				
ORISKANY	Sandstone absent	5389 - First GAS at 5400 165 M.C.F. GAS after shot			Sandstone absent				
HELDERBERG									
SALINA					5726-				
TOTAL DEPTH	4992	5406			6110				
DEEPEST FORMATION TESTED	Oriskany	Oriskany			Helderberg				
RESULT	Dry No sandstone of Oriskany horizon	165 MCF GAS From Oriskany after shot R.P. 2900+psi			GAS pockets at 5485 and 5777 No sandstone at Oriskany horizon				

TABLE I, SHEET 8

	CLEARFIELD COUNTY				CLINTON COUNTY				
QUADRANGLE	Clearfield	Punxsutawney			Bitumen				
MAP NUMBER	1	2			2				
NAME OF WELL	John Woolridge Estate 1	Alice Irwin 10			Dorsey Calhoun 1				
OPERATOR	Susquehanna Oil and Gas	F C Deemer			Leidy Prospecting				
TOWNSHIP	Bradford	Bell			Leidy				
LATITUDE	2.77 mi S 41°05'	2.46 mi S. 41°00'			.65 mi S 41°25'				
LONGITUDE	1.93 mi. E. 78°20'	.29 mi. W. 78°45'			.16 mi. W. 77°55'				
DATE COMPLETED	1933	2-49			1-8-50				
ELEVATION	1567	1964			940(?)				
TULLY	6903-7050	6685-6865			4840-				
ONONDAGA		7424-7437			5635-5660				
ORISKANY		7503-7539 Only 2 feet of sandstone at Top			5660- Estimated 15000 MCF GAS at 5660				
HELDERBERG		7539-7699							
SALINA		7768- Salt 7980-7986							
TOTAL DEPTH	7490	8049			5661				
DEEPEST FORMATION TESTED	Tully	Helderberg			Oriskany				
RESULT	Dry	Dry Numerous GAS pockets 6670-6710 7127-7215 7340-7450 Shot without results			15,000 M.C.F. GAS from Oriskany R.P. 420 psi				

TABLE I, SHEET 9

CRAWFORD COUNTY

QUADRANGLE	Girard	Girard	Girard	Girard	Girard	Girard	Girard	Girard	Girard
MAP NUMBER	6	7	8	9	10	11	12	13	14
NAME OF WELL	Herbert Gates 2	Herbert Gates 1	Freeman Bishop 2	George Gates 1	Pierce Lorance 1	Freeman Bishop 1	William George 1	Alfa Cozad 1	Wilbur J. Bittel 1
OPERATOR	Albert Hibler	Albert Hibler	Albert Hibler	Beaver Oil and Gas	Albert Hibler	Albert Hibler	L.C. and A.W. Patterson	Appalachian Dev.	Appalachian Dev., et al
TOWNSHIP	Beaver	Beaver	Beaver	Beaver	Beaver	Beaver	Beaver	Beaver	Beaver
LATITUDE	1.10 mi S 41°50'	1.05 mi S. 41°50'	1.17 mi S 41°50'	.77 mi S 41°50'	1.11 mi S 41°50'	1.20 mi S 41°50'	.82 mi S 41°50'	1.60 mi S 41°50'	1.90 mi S 41°50'
LONGITUDE	1.44 mi E 80°30'	1.50 mi E 80°30'	1.55 mi E 80°30'	1.54 mi E 80°30'	1.58 mi E 80°30'	1.63 mi E 80°30'	2.07 mi W 80°25	2.13 mi E 80°30'	2.11 mi E 80°30'
DATE COMPLETED		1916			6-16		1934	5-26-49	12-11-46
ELEVATION	999	999	1000	990	992	998	1003	1027	1036
BEREA - CORRY									
MURRYSVILLE									
TULLY		1960-						1979-	1982-
ONONDAGA	2103-	2118-		2091- Show of GAS and OIL of 2224	2040-	2103-2359	2118-	2142-2388	2148-2405
ORISKANY	2360- 4 bbl. OIL per day	OIL at 2380-2390 S.W. at 2385			Show of OIL 5 bailers S.W. per hour at 2390	2359- Show of OIL at 2360	2384-2392 12 bbl. OIL and 100 bbl. S.W. per day	2388-2394 190 M.C.F. GAS after casing R.P. 650 p.s.i.	2405-2413 Show of GAS, S.W.
SALINA									
LOCKPORT					Hole full of black S.W. at 3200			Black S.W. at 3200, 3218 and 3251	Black S.W. at 3225, 3240 and 3273
ALBION — RED MEDINA (GRIMSBY)		not recorded			Thorold 3380-3400 Grimsby 3415-3470 Show GAS 3420, 3460			Thorold 3475-3495 20 M.C.F. GAS at 3493 Grimsby 3495-3517	
ALBION — WHITE MEDINA (WHIRLPOOL)		not recorded			not recorded			3613-3625	
QUEENSTON								3625-	
TOTAL DEPTH	2375	3500			3500	2393	2410	3628	3327
DEEPEST FORMATION TESTED	Oriskany	Albion			Albion	Oriskany	Oriskany	Albion	Lockport
RESULT	4 bbl. OIL per day in Oriskany Shot 2360-2368	Shale GAS at 560 Good show OIL 2380-2390 in Oriskany S.W. at 2385	No information	No information	Show of OIL and GAS in shallow sand at 60 S.W. in Oriskany and Lockport Show of GAS in Grimsby	Show of OIL at 2360 in Oriskany	12 bbl. OIL and 100 bbl. S.W. per day from Oriskany	Shale GAS 1342-1352 190 M.C.F. GAS, Oriskany Black S.W. Lockport 20 M.C.F. GAS, Thorold	Salt water with show of GAS in Oriskany Black S.W. in Lockport

CRAWFORD COUNTY

TABLE I, SHEET 10

QUADRANGLE	Girard	Girard	Girard	Girard	Girard	Girard	+ Union City	Union City	Union City
MAP NUMBER	15	16	17	18	19	20	1	2	3
NAME OF WELL	Eva Patterson 1	L L Sensabaugh 1	Fred Walton 1	Frank A Boyce 1	Powell Bros 1	Conneautville Bittern Well	J Chapin 1	Geo and L Eaton 1	Elmer E. Obert 1
OPERATOR	L C and A W Patterson	L C and A W Patterson	Appalachian Dev	Eugene Coste et al	Eugene Coste et al		Potter Dev.	United Natural Gas	United Natural Gas
TOWNSHIP	Beaver	Beaver	Beaver	Beaver	Spring	Spring	Rockdale	Rockdale	Athens
LATITUDE	55 mi S 41°50°	47 mi S 41°50'	129 mi S 41°50'	118 mi S 41°50'	154 mi S 41°50'	76 mi N 41°45'	199 mi N 41°45'	139 mi N 41°45'	177 mi N 41°45'
LONGITUDE	179 mi W 80°25'	152 mi W 80°25'	133 mi W 80°25'	42 mi W. 80°25'	224 mi E 80°25'	127 mi W. 80°20'	15 mi E 80°00'	08 mi W 79°55'	2.13 mi E. 79°55'
DATE COMPLETED	2-37	12-33	12-3-44		1903	1888	5-21-37	5-14-21	11-5-19
ELEVATION	997	998	1006	991	908	1030	1220	1368	1400
BEREA - CORRY									
MURRYSVILLE									
TULLY			1981-	1925-	1850-		2634-	2892	2950-
ONONDAGA	2126--	2132 2377	2144 2390	2100-2360	2085 2330	2365	2836-3025	3111 3310	
ORISKANY	2383-2393 GAS at 2385 SW at 2388	2377-2385 8661 OIL and 125 661 S.W per day	2390-2399 Show of OIL with SW	2360-2375 Show of GAS with large quantity S W	2330-2350 Good show of OIL with S.W	SW at 2667	No sandstone	No sandstone	
SALINA				Sulphur water 2435 Salt 2710-2740 2860-2870 2875-2905			Salt 3348-3352 3405-3450 3597-3624	Show of SW 3340	
LOCKPORT				Show of GAS 3144 S W at 3148 and 3183			Black SW 3922		
ALBION — RED MEDINA (GRIMSBY)							Grimsby 4118-4219 Show GAS and SW Lobo Head 4226-4231		
ALBION — WHITE MEDINA (WHIRLPOOL)							4280-4292		
QUEENSTON							4292-		
TOTAL DEPTH	2412	2400	2427	3183	2356	2667	4354	3565	3102
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Lockport	Oriskany	Oriskany	Albion	Oriskany	Tully
RESULT	Shale GAS at 840 and 910 GAS at 2385 and SW at 2388 in Oriskany SW rose 1800 ft	Show of OIL in gray sand, 125-137 Show of GAS 265-281 Good show OIL and SW in Oriskany SW rose 1800 feet	Slight show of OIL with SW in Oriskany	Show of GAS with SW in Oriskany Show of GAS and much SW in Lockport	Good show OIL with SW in Oriskany SW rose 2000 ft	Shale GAS at 350 and 523 SW from Oriskany rose 1800 feet	Shallow GAS shows at 746, 892 and 1012 Show of GAS and a little SW in Grimsby	No sandstone at Oriskany horizon	Dry Did not reach Oriskany

TABLE I, SHEET II

CRAWFORD COUNTY

QUADRANGLE	Linesville	Linesville	Linesville	Linesville	Linesville	Linesville	Linesville	Meadville	Meadville
MAP NUMBER	1	2	3	4	5	6	7	1	2
NAME OF WELL	G.J. Johnston 1	James Naylor Lands 1	Huidekoper 1	Gertrude Scott 1	R.C. Jamison 1	Ellen Calvin 2	Ellen Calvin 1	N.D. Dahl 1	William Long 1
OPERATOR	Thompson et al	United Natural Gas	I.W. Whitney	Carnegie Nat. Gas	Anthony J. Wise	Sylvania	Sylvania	Potter Dev.	Woodcock Valley Oil and Gas
TOWNSHIP	Summit	Vernon	Sadsbury	South Shenango	South Shenango	East Fallowfield	East Fallowfield	Hayfield	Woodcock
LATITUDE	1.18 mi S 41°40'	2.44 mi S. 41°40'	2.56 mi S 41°40'	2.21 mi N. 41°30'	1.16 mi N 41°30'	1.86 mi N. 41°30'	1.88 mi N 41°30'	2.54 mi S. 41°45'	2.45 mi N. 41°40'
LONGITUDE	1.25 mi E 80°25'	.57 mi W 80°15'	.78 mi E 80°20'	1.86 mi E 80°30'	2.07 mi W 80°25'	1.58 mi E 80°20'	1.63 mi E 80°20'	1.14 mi W 80°10	.77 mi W 80°05'
DATE COMPLETED		12-23	9-16	3-30-36	5-31-30	5-15-48	12-5-43	1937	1902
ELEVATION	1110	1170	1082	1135	1197	1343	1342	1345	1176
BEREA - CORRY					175-200	321-335			
MURRYSVILLE				162-223		393-408 428-438	380-385		
TULLY		2650-	2480-	2600-		3083-	3083-	2748-	2700-
ONONDAGA		2830-3025 Some SW 2995	2685-2875	2817-3011 Show of GAS, 2842	2900-3100	3235-3430	3242-3431	2935-3118	not recorded
ORISKANY		3025-3035 SW, Filled hole	2875-2885 SW, rose 2500 ft.	3011-3035 SW 3023 -3028	3100-3112 No sandstone Small show GAS, much SW	3430-3448 5/4 gal. SW per hr	3431-3449 S.W	3118-3123 SW rose 900 ft	not recorded
SALINA		Salt 3314-3324 3332-3375 3490-3540 3720-3735	Salt 3200-3270	Salt 3331-3410	Salt 3435-3570 3621-3670 3680-3720 3840-3855	Salt 3730-3814 3930-3965 4105-4114	Salt 3637-3750 3783-3813 3863-3872 3940-3965	Salt 3406-3440 3540-3568	
LOCKPORT		3830-4079 S.W at 3975	Show OIL 3775 Slight show GAS 3805 SW at 3815, rose 3600 ft	Show OIL 4003-4008 SW 4023, Filled hole	3925-4210 Show GAS of 4073 Good show OIL and a little SW 4088-4096	Small show GAS 4405 SW 4425-4435	Show of GAS 4398-4421 SW 4421	Black SW and show of GAS at 4016	
ALBION — RED MEDINA (GRIMSBY)		4215-4305	Thorold 4060-4085 Show GAS 4075 Grimsby 4085-4200	Thorold 4277-4281 Grimsby 4281-4340	4348-4445	4663-4765 Small show GAS, 4676		Thorold 4243-4245 Grimsby 4245-4341 Show GAS 4291	
ALBION — WHITE MEDINA (WHIRLPOOL)		Cabot Head 4305-4373 30 MCF GAS 4318 Whirlpool 4373-4384	not recorded	4415-4431	4510-4536			4414-4422	
QUEENSTON		4384-		4431-	4536-	4847-		4422-	
TOTAL DEPTH		4400	4400	4465	4619	4896	4644	4522	3165
DEEPEST FORMATION TESTED		Albion	Albion	Albion	Albion	Albion	Lockport	Albion	Oriskany
RESULT		Show of GAS 597 SW in Oriskany SW in Lockport 30 MCF GAS in Albion	Show of OIL and GAS 275-300 SW in Oriskany Show of OIL and GAS, SW in Lockport Show of GAS in Thorold	Show of GAS in Onondaga SW in Oriskany Show OIL and SW in Lockport	SW in Oriskany Good show OIL and a little SW in Lockport	SW in Oriskany SW and small show of GAS in Lockport Small show GAS in Grimsby	Show of OIL, 595 SW in Oriskany SW and small show of GAS in Lockport	SW in Oriskany Black SW and show GAS in Lockport Show GAS in Grimsby	Encountered sufficient SW for drilling

TABLE I, SHEET 12

CRAWFORD COUNTY

QUADRANGLE	Townville								
MAP NUMBER	1								
NAME OF WELL	Harry F. White 1								
OPERATOR	Geo. W. Bean and Harry F. White								
TOWNSHIP	Richmond								
LATITUDE	37 mi. S. 41°45'								
LONGITUDE	1.77 mi. W 79°55'								
DATE COMPLETED									
ELEVATION	1270								
BEREA - CORRY									
MURRYSVILLE									
TULLY	2814-								
ONONDAGA	3026-								
ORISKANY	Oriskany horizon 3208 no sandstone								
SALINA	Salt 3467- 3640-								
LOCKPORT	Black SW at 4100 rose 3000 ft								
ALBION — RED MEDINA (GRIMSBY)	4297-								
ALBION — WHITE MEDINA (WHIRLPOOL)									
QUEENSTON									
TOTAL DEPTH									
DEEPEST FORMATION TESTED									
RESULT									

ELK COUNTY

QUADRANGLE	Kane	Hallton	Hallton						
MAP NUMBER	1	1	2						
NAME OF WELL	No. 3737	Pa State Game Lands, W1. 3653 1	Danforth 41						
OPERATOR	United Natural Gas	Pennsylvania Gas	Humphrey Brick and Tile						
TOWNSHIP	Highland	Highland	Spring Creek						
LATITUDE	1.02 mi. N. 41°35'	2.61 mi. N. 41°25'	1.23 mi. S. 41°20'						
LONGITUDE	15 mi E 78°50'	56 mi E 78°55'	.45 mi W. 78°50'						
DATE COMPLETED	1928	7-19-45	5-49						
ELEVATION	1836	1572	1457						
MURRYSVILLE - KNAPP	105-200	275-353							
TULLY	4872-4878	5141-5172	5470-5502						
ONONDAGA	5310-5350	5547-5602	5908-5967						
ORISKANY	Sandstone absent	Sandstone absent	Sandstone absent						
HELDERBERG	5350-5420	5602-5680	5967-6056						
SALINA	5480- Salt beds 5734-6485	5720- Salt beds 6070-6462							
LOCKPORT	6696-6903								
ALBION — RED MEDINA (GRIMSBY)	7076-7146	7363-7387							
ALBION — WHITE MEDINA (WHIRLPOOL)	7175-7242	7387-7528							
QUEENSTON	7242-	7528-							
TOTAL DEPTH	7930	7546	6076						
DEEPEST FORMATION TESTED	Albion	Albion	Helderberg						
RESULT	No sandstone at Oriskany horizon Dry in Albion	No sandstone at Oriskany horizon Dry in Albion	GAS pockets at 5345, 5887, 5902, 6074-6076 No sandstone at Oriskany horizon						

ERIE COUNTY

QUADRANGLE	Fairview	Fairview	Erie	Erie	Erie	Erie
MAP NUMBER	1	2	1	2	3	4
NAME OF WELL	Frances Miles 1	Frances Miles 3	Presque Isle 1	Erie Deep Well	Frank Buczkowski 1	Carl W. Held 1
OPERATOR	Netherland Gas and Fuel	New Penn Dev.	Commissioners of Water City of Erie	Presque Isle Gas	Sylvania	Appalachian Dev.
TOWNSHIP	Springfield	Springfield	Mill Creek	Mill Creek	Summit	Summit
LATITUDE	0.12 mi. N. 42°00'	0.24 mi. N. 42°00'	0.07 mi. S. 42°10'	2.12 mi. S. 42°10'	1.51 mi. S. 42°05'	1.40 mi. S. 42°05'
LONGITUDE	1.06 mi. W. 80°25'	0.95 mi. W. 80°25'	1.62 mi. W. 80°05'	0.25 mi. E. 80°05'	0.53 mi. E. 80°05'	1.29 mi. W. 80°00'
DATE COMPLETED	1-9-32	1933	9-9-10	1889	4-21-47	12-21-46
ELEVATION	610	593	581	600	1122	1149
TULLY		1130 -	1038 -	1110 -	1768 -	1797 -
ONONDAGA	1312 - 1587	1302 - 1582	1265 - 1480 Show GAS at 1265 - 1307	1325 - 1600	2000 - 2252	2039 - 2280
ORISKANY	1587 - S.W. 1592	1582 - 1635 S.W. 1582-1592	No Sandstone S.W. 1530	No Sandstone S.W. 1620	2252 - 2257 puff of GAS at 2254 S.W. 2254-2257	Ss. 2280-2300 sandy ls. 2300-2302 S.W. at 2295 rose 1200 feet in 3¼ hrs.
SALINA		1704 - 2154 salt 2029 - 2041			Shows of GAS at 2313 and 2319 S.W. at 2325 31 gal. per hr.	
LOCKPORT	S.W. 2324	2154 - 2396 S.W. 2280-2367		S.W. with H_2S at 2210		
ALBION — RED MEDINA (GRIMSBY)		Thorold 2496-2502 Grimsby 2502-2508	Thorold 2320-2360 Show GAS at 2343 Grimsby 2360-2388	2388 - 2455		
ALBION — WHITE MEDINA (WHIRLPOOL)	2524 - 2568 GAS 2550-2555 A little S.W. 2565-2568	2508 - 2564 GAS 2508-2525	2398 - 2493	2455 - 2520 Show of GAS in top		
QUEENSTON	2590 -	2564 -	2493 -	2600 - 3385		
TRENTON				4250 -		
BEEKMANTOWN						
UPPER CAMBRIAN (GATESBURG)						
TOTAL DEPTH	2650	2575	3572	4460	2325	2302
DEEPEST FORMATION TESTED	Albion	Albion	Albion	Trenton	Oriskany	Oriskany
RESULT	S.W. in Oriskany and Lockport, filled hole 600 MCF GAS at 2550-2555 in Whirlpool A little S.W. at 2565-2568	S.W. in Oriskany and Lockport 55 MCF GAS at 2508-2525 in Whirlpool	Show of GAS at 1307 S.W. at 1530 10 MCF GAS at 2343 in Thorold	S.W. in Lockport Show of GAS in White Medina Dry in Trenton	7 gal. S.W. per hr. in Oriskany Shows of GAS and 31 gal. S.W. per hr. in Salina	Shows of GAS at 300 and 440 S.W. at 2295 in Oriskany, rose 1200 feet in 3¼ hrs.

Table 1 (15)

ERIE COUNTY

QUADRANGLE		Erie	Erie	Erie	Erie	Erie	Erie
MAP NUMBER		5	6	7	8	9	10
NAME OF WELL		George S. Gaber 1	H. G. Hull 1	Chester Fuhrman 1	A. F. Hugger 1	Merle K. Meade 1	T. Lininger 1
OPERATOR		Appalachian Dev.	Sylvania	Appalachian Dev.	Sylvania	Appalachian Dev.	Pennsylvania Gas
TOWNSHIP		Summit	Summit	Summit	Summit	Summit	Summit
LATITUDE		1.94 mi. S. 42°05'	1.88 mi. S. 42°05'	1.79 mi. S. 42°05'	2.14 mi. S. 42°05'	2.01 mi. S. 42°05'	1.84 mi. S. 42°00'
LONGITUDE		1.87 mi. W. 80°00'	1.57 mi. W. 80°00'	1.03 mi. W. 80°00'	1.68 mi. W. 80°00'	1.27 mi. W. 80°00'	1.51 mi. W. 80°00'
DATE COMPLETED		3-29-47	1-17-47	3-29-48	3-13-47	8-23-46	1-15-13
ELEVATION		1250	1200	1194	1236	1155	1342
TULLY		1908-	1860-	1861-	1895-	1812-	1950-
ONONDAGA		2142 - 2396	2084-2329 Show of GAS at 2301	2089-2325	2121 - 2373	2023-2281	2170 - 2460
ORISKANY		No Sandstone S.W. at 2398	2329-2337 1435 MCF GAS at 2332-2337	Ss. 2325-2339 Flint 2339-2378 Ss. 2378-2400 S.W. at 2383	2373- 254 MCF GAS at 2374-2377	2281- 420 MCF GAS A little S.W. at 2290	2460-2560
SALINA				Salt 2790 - 2806			Salt 2919 - 2990
LOCKPORT				Black S.W. at 3012			Black S.W. at 3200 - 3280
ALBION	RED MEDINA (GRIMSBY)			3280-3337			Thorold 3440-60 Grimsby ~~3460-3500~~
	WHITE MEDINA (WHIRLPOOL)			absent			3580-3582
QUEENSTON				3399-			3582-
TRENTON							
BEEKMANTOWN							
UPPER CAMBRIAN (GATESBURG)							
TOTAL DEPTH		2399	2337	3485	2380	2291	3740
DEEPEST FORMATION TESTED		Oriskany	Oriskany	Albion	Oriskany	Oriskany	Albion
RESULT		Show of GAS at 283 S.W. at 2398 at Oriskany horizon	Show of GAS at 377 and 2301 1435 MCF GAS at 2332-2337 in Oriskany R.P. 800 psi. in 24 hrs.	S.W. at 2383 Black S.W. at 3012 in Lockport	Show of GAS at 207 254 MCF GAS at 2374-2377 in Oriskany, R.P. 615 psi. in 24 hrs.	420 MCF GAS in Oriskany A little S.W. at 4290	

ERIE COUNTY

QUADRANGLE	North East	North East	North East	North East	North East	North East
MAP NUMBER	1	2	3	4	5	6
NAME OF WELL	Mattier Bros. 1	Heard 1	James Sheridan 1	Silliman 1	Moorhead 1	C.R Thornton 1
OPERATOR	North East Light and Heat	North East Light and Heat	North East Light and Heat	No h East Light and Heat	North East Light and Heat	Appalachian Dev.
TOWNSHIP	North East	North East	North East	North East	Harborcreek	Harborcreek
LATITUDE	0.34 mi. N. 42°15'	1.58 mi. S. 42°15'	2.46 mi. S. 42°15'	2.33 mi. S. 42°15'	1.39 mi. N. 42°10'	2.78 mi. N. 42°05'
LONGITUDE	1.76 mi. E. 79°50'	0.34 mi. W. 79°50'	0.92 mi. W. 79°50'	0.36 mi. E. 79°50'	0.66 mi. E. 79°55'	0.34 mi. W. 79°55'
DATE COMPLETED		1-14				9-7-45
ELEVATION		650				1070
TULLY		1060-				1687-
ONONDAGA		1290-				1938-2185
ORISKANY		No Sandstone S.W. at 1556				No Sandstone S.W. at 2191-2203
SALINA						
LOCKPORT						
ALBION — RED MEDINA (GRIMSBY)		2336-2452				
ALBION — WHITE MEDINA (WHIRLPOOL)		2482-2500 10 MCF GAS at 2489-2500				
QUEENSTON		2500-				
TRENTON						
BEEKMANTOWN						
UPPER CAMBRIAN (GATESBURG)						
TOTAL DEPTH		2800				2228
DEEPEST FORMATION TESTED	Albion	Albion	Albion	Albion	Albion	Oriskany
RESULT	Show of GAS in Albion	10 MCF GAS at 2489-2500 in Whirlpool	Show of GAS in Albion	Dry in Albion	Show of GAS in Albion	Shows of GAS at 228, 547, 551, 868 and 894 S.W. at 2191-2203

Table 1 (17)

ERIE COUNTY

QUADRANGLE	North East	North East	North East	North East	North East	Girard
MAP NUMBER	7	8	9	10	11	1
NAME OF WELL	Lloyd Jones 1	Dell Lewis 1	E. W. Downing 1	Alfred A. Holm 1	Chas. Bertgess 1	Jay Childs 1
OPERATOR	Appalachian Dev.	S. J. Brendel et al	Appalachian Dev.	Appalachian Dev.	R. M. Weaver and W. R. Harger	Ohio Oil
TOWNSHIP	Greenfield	Greenfield	Greene	Greene	Venango	Springfield
LATITUDE	2.32 mi. N. 42°05	1.64 mi. N. 42°05'	1.10 mi. S. 42°05'	2.33 mi. S. 42°05'	2.18 mi. N. 42°00'	2.23 mi. S. 42°00'
LONGITUDE	0.39 mi. E. 79°50'	0.70 mi. W. 79°45'	0.15 mi. E. 80°00'	1.32 mi. W. 79°55'	0.48 mi. W 79°50'	0.95 mi. W. 80°30'
DATE COMPLETED	10-30-47	9-29-32	5-29-47	4-9-46	4-1-49	3-30-41
ELEVATION	1409	1386	1406	1316	1338	638
TULLY	2113-	2163-	2070-	2050-	2225-	1198-
ONONDAGA	2349-2590	2400-2628	2301-2566 Show Oil at 2372	2290-2563	2445-	1377-1663
ORISKANY	Ss. 2590-2597 cherty ls. 2597-2622 S.W. at 2622	No Sandstone hole full of S.W. at 2630	2566-2573	2563-2582 S.W. rose 1650 ft. in hole at 2571	No Sandstone	1663-1710 S.W. at 1670
SALINA						1803-2257 salt 2130-2210
LOCKPORT		Black S.W. at 3260				2257-2505
ALBION — RED MEDINA (GRIMSBY)		Thorold 3476-3482 Grimsby 3482-3543				2624-2699
ALBION — WHITE MEDINA (WHIRLPOOL)		3645-3658				2789-2973
QUEENSTON		3658-				2793-3626
TRENTON						4437- Show Oil at 4441 A little S.W. at 4460
BEEKMANTOWN						absent
UPPER CAMBRIAN (GATESBURG)						5179- Slight show of GAS and Oil at 5185-5188 S.W. at 5188-5191
TOTAL DEPTH	2622	3671	2587	2582	2730	5191
DEEPEST FORMATION TESTED	Oriskany	Albion	Oriskany	Oriskany	Oriskany ?	Gatesburg
RESULT	S.W. at 2622 in Oriskany	S.W. at 2630 Black S.W. at 3260 in Lockport Dry in Albion	Show of OIL at 2372 in Onondaga	Shows of GAS at 700 and 840 S.W. rose 1650 ft. at 2571 from Oriskany	Dry	S.W. in Oriskany Show of GAS and OIL in Trenton Show of GAS and OIL at 5185-5188 in Gatesburg S.W. at 5188-5191 rose 2000 feet

ERIE COUNTY

QUADRANGLE	* Girard	Girard	Girard	Girard	Cambridge Springs	Cambridge Springs
MAP NUMBER	2	3	4	5	1	2
NAME OF WELL	N. Blickensderfer 22	Jack Benedict 1	Charles B. Berst 1	Wm. C. Kibber 1	J. Kirk 1	Chauncey Blount 1
OPERATOR	Ohio Oil	Netherland Gas and Fuel	Girard Gas	Dougherty Bros.	Pennsylvania Gas	Wittmer Co. and Mellon and Pollock
TOWNSHIP	Springfield	Springfield	Girard	Girard	McKean	McKean
LATITUDE	1.74 mi. S. 42°00'	2.83 mi. S. 42°00'	0.59 mi. S. 42°00'	1.48 mi. S. 42°00'	0.86 mi. S. 42°00'	1.92 mi. S. 42°00'
LONGITUDE	0.09 mi. W. 80°30'	1.08 mi. E. 80°30'	0.24 mi. W. 80°20'	1.08 mi. E. 80°20'	1.41 mi. W. 80°05'	0.25 mi. E. 80°05'
DATE COMPLETED	4-10-42	1932	2-5-32	1927	7-2-14	5-7-32
ELEVATION	642	664	772	710	1340	1450
TULLY	1220-					
ONONDAGA	1378-1662	1458-1725	1575-1860	1600-1877	2320-2608	2459-2739
ORISKANY	1662-1695 hole full of S.W. at 1662	1725-1750 hole full of S.W. at 1740	1860- hole full of S.W.	1877- S.W. 5 bailers in 8 hrs. at 1877	Ss. 2608-2628 Ls. 2628-2690 Ss. 2690-2700	2739-2813 very slight show of GAS hole full of S.W. at 2807
SALINA	1815-2286 salt 2121-2195			salt 2298-2369	salt 3015-3060	salt 2863-2877
LOCKPORT	2286-2511 S.W. 2422-2431 4 bailers per hr.	Hole full of S.W. at 2500	A little S.W. and slight show of OIL at 2564 S.W. at 2589	Black S.W. at 2585	Black S.W. at 3332-3352	1 bailer S.W. in 48 hrs. at 3490
ALBION — RED MEDINA (GRIMSBY)	2615-2645	2683-2780 18 MCF GAS at 2742	2774-2844 S.W. at 2827	Thorold 2756-2776 Grimsby 2776-2886 5 MCF GAS	3502-3613	3677-3769
ALBION — WHITE MEDINA (WHIRLPOOL)	Show of GAS at 2652		2893-2944	2886-2940 slight show of GAS	3670-3672	3769-3848 GAS at 3773 200 MCF GAS after sho
QUEENSTON	2780-3626		2944-	2940-	3672-	3848-
TRENTON	4397- S.W. at 4457 rose 300 ft. in hr.					
BEEKMANTOWN						
UPPER CAMBRIAN (GATESBURG)						
TOTAL DEPTH	4457	2890	3000	3078	3702	3988
DEEPEST FORMATION TESTED	Trenton	Albion	Albion	Albion	Albion	Albion
RESULT	S.W. in Oriskany and Lockport Show of GAS in Cabot Head S.W. at 4457 in Trenton	S.W. in Oriskany at 1740 S.W. in Lockport at 2500 18 MCF GAS at 2742 in Grimsby	S.W. in Oriskany Slight show of OIL in Lockport S.W. in Lockport S.W. at 2827 in Grimsby 9½ bailers per hr.	S.W. in Oriskany S.W. in Lockport 5 MCF GAS in Grimsby Slight show GAS in Whirlpool	S.W. 3332-3352 in Lockport	Hole full of S.W. at 2807 in Oriskany 200 MCF GAS after shot at 3773 in Whirlpool soon exhausted

Table 1 (19)

ERIE COUNTY

QUADRANGLE	Cambridge Springs	Cambridge Springs	Corry	Corry	Corry	Corry
MAP NUMBER	3	4	1	2	3	4
NAME OF WELL	Wm. Steadman 1	Rance McGahan 1	W.W. Stutzman 1	C.J. Follette 1	C.J. Follette 2	A.D. Peterson 1
OPERATOR	Pennsylvania Gas	Local Company	Pennsylvania Gas	Pennsylvania Gas	Pennsylvania Gas	Pennsylvania Gas
TOWNSHIP	Washington	Washington	Wayne	Wayne	Wayne	Wayne
LATITUDE	2.19 mi. N. 41°55'	2.81 mi. N. 41°50'	2.33 mi. S. 42°00'	1.95 mi. S. 42°00'	2.13 mi. S. 42°00'	1.69 mi. S. 42°00'
LONGITUDE	1.38 mi. E. 80°10'	0.42 mi. W. 80°05'	0.95 mi. E. 79°45'	1.70 mi. E. 79°45'	1.90 mi. E. 79°45'	1.96 mi. E. 79°45'
DATE COMPLETED	7-2-14		10-25-47	4-29-47	5-17-48	12-17-48
ELEVATION	1192	1490	1660	1835	1774	1862
TULLY			2770-	2934-	2903-	2977-
ONONDAGA	2275-2560		3011-	3185-	3150-	3222-
ORISKANY	2560-2580 S.W.		No Sandstone	No Sandstone 65 gal. S.W. in 32 hrs. at 3427	No Sandstone	No Sandstone
SALINA	salt 3020-3035		salt 3585-3607	salt 3758-3796 salt and shale 3854-3945	salt and shale 3818-3912	Salt 3770-3818 Salt 3928-3980
LOCKPORT	Black S.W. 3214-3320		16 MCF GAS at 3987 Black S.W. at 3988	6 MCF GAS and 700 gal. S.W. in 60 hrs. at 4168	23 gal. S.W. per hr. 4129-4186	10 MCF GAS at 4172 90 gals. S.W. in 12 hrs. 4172-4185
ALBION — RED MEDINA (GRIMSBY)	3461-3533		4233-4315 12 MCF GAS at 4276	Thorold 4381-4391 Grimsby 4391-4444	4347-4392 9 MCF GAS	Thorold 4394-4400 Grimsby 4400-4467 74 MCF GAS at 4463
ALBION — WHITE MEDINA (WHIRLPOOL)	3626-3635 2 MCF GAS at 3628		4320-4382	4414-4546 20 MCF GAS at 4434 500 MCF GAS at 4544	4392-4502	4467-4518
QUEENSTON	3635-		4390-	4559-	4505-	4575-
TRENTON						
BEEKMANTOWN						
UPPER CAMBRIAN (GATESBURG)						
TOTAL DEPTH	3735	3700	4452	4584	4523	4603
DEEPEST FORMATION TESTED	Albion		Albion	Albion	Albion	Albion
RESULT	S.W. in Oriskany 2 MCF GAS at 3628 in Whirlpool	Dry	Open flow at time of completion 10 MCF	900 MCF GAS after shooting 4539-4544 in Whirlpool R.P. 1155 psi. in 24 hrs.	16 MCF GAS after shooting 4380-4390 in Grimsby	49 MCF GAS after shooting 4458-4468 in Grimsby R.P. 890 psi.

ERIE COUNTY

QUADRANGLE		Corry					
MAP NUMBER		5					
NAME OF WELL		John Kalika 1					
OPERATOR		Pennsylvania Gas					
TOWNSHIP		Wayne					
LATITUDE		1.40 mi. S. 42°00'					
LONGITUDE		1.59 mi. W. 79°40'					
DATE COMPLETED		10-10-47					
ELEVATION		1854					
TULLY		2953-					
ONONDAGA		3199-					
ORISKANY		No Sandstone					
SALINA		Salt 3786-3795					
LOCKPORT		Black S.W. rose 200 feet at 4182 2 MCF GAS at 4186					
ALBION	RED MEDINA (GRIMSBY)	4413-4445					
	WHITE MEDINA (WHIRLPOOL)	4445-4553 19 MCF GAS at 4549					
QUEENSTON		4560-					
TRENTON							
BEEKMANTOWN							
UPPER CAMBRIAN (GATESBURG)							
TOTAL DEPTH		4591					
DEEPEST FORMATION TESTED		Albion					
RESULT		26 MCF GAS after shot 4548-4552 in Whirlpool					

FAYETTE COUNTY

QUADRANGLE	Uniontown	Uniontown	Uniontown	Uniontown	Uniontown	Uniontown	Uniontown	Uniontown	Uniontown
MAP NUMBER	1	2	3	4	5	6	7	8	9
NAME OF WELL	Piedmont Coal Co. 1	Mrs. J.H. Sorg 2	Mrs. J.H. Sorg 1	John R. Thompson 1	Piedmont Coal Co 2	Leo. F. Heyn 1	John R. Thompson Heirs 2	Leo. F. Heyn 2	Piedmont Coal Co 1
OPERATOR	New Penn Dev. et al.	W.W. Wasson et al.	W.W. Wasson et al.	Greensboro Gas	Peoples Natural Gas	New Penn Dev. et al.	New Penn Dev.	New Penn Dev. et al.	Peoples Natural Gas
TOWNSHIP	North Union	North Union	North Union	Wharton	South Union	South Union	Wharton	South Union	South Union
LATITUDE	1.68 mi. N. 39°50'	1.57 mi. N. 39°50'	1.53 mi. N 39°50'	1.50 mi N 39°50'	1.51 mi N 39°50'	1.23 mi. N 39°50'	1.05 mi N 39°50'	1.02 mi N 39°50'	.78 mi N 39°50'
LONGITUDE	.23 mi E 79°40'	.48 mi E 79°40'	.53 mi E 79°40'	.70 mi E 79°40'	79°40'	.33 mi. E 79°40'	.72 mi E 79°40'	.20 mi E 79°40'	.03 mi E 79°40'
DATE COMPLETED	5-21-40	9-2-41	3-10-39	8-12-38	11-26-40	4-23-37	1-16-45	3-24-38	1-5-39
ELEVATION	2178	2501	2580	2542	2024	2316	2316	2464	2369
MURRYSVILLE	-94			428-481		80-125			
TULLY	6061-6190	6351-	6401-6492	6760-6871	5720-	6021-6100	6941-7030	6105-	5910-5995
ONONDAGA	6657-7042 Top chert 6692 GAS at 6731, 6772, 6783, 6792, 6826	6984-7282 Top chert 7068 GAS at 7143	6925-7109 Top chert 6928 GAS	7357-7556 Top chert 7380	6381-6691 Top chert 6420 First GAS at 6422	6572-6777 Top chert 6593 First GAS at 6611 1800 M.C.F. GAS	7469-7638 Top chert 7491	6672- Top chert 6682 GAS, 6697-6764 2,844 M.C.F. R.P. 2985 psi	6510-6709 Top chert 6547 GAS, 6570-6709 2600 M.C.F. R.P. 3045 psi
ORISKANY	7042- GAS 7046-7055	7282-7377 GAS at 7352	7109- GAS	7556-7667	6691-	6777-6848 500 M.C.F. GAS at 6781	7638-7720	6834- GAS 6839-6975 880 M.C.F.	6709-6804
HELDERBERG				7667-8017		6848-7178			
SALINA						7809- Salt beds- 8292-8436			
TOTAL DEPTH	7347 After deepening	7434	7184 After deepening	8159	6817	8450 After deepening	7862	6984 After deepening	7341 After deepening
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Helderberg	Oriskany	Salina	Oriskany	Oriskany	Helderberg
RESULT	2,500 M.C.F. GAS from Onondaga and Oriskany	2,000 M.C.F. GAS from Onondaga and Oriskany	1,900 M.C.F. GAS one half from Onondaga and one half from Oriskany R.P. 2980 psi	Dry	2,724 M.C.F. GAS from Onondaga R.P. 2225 psi	1800 M.C.F. GAS from Onondaga 500 M.C.F. GAS from Oriskany 150 M.C.F. GAS from Upper Silurian 7181-7200 678 M.C.F. GAS 7267-7347	Dry	2844 M.C.F. GAS from Onondaga 880 M.C.F. GAS from Oriskany	2600 M.C.F. GAS from Onondaga R.P. 3045 psi

TABLE I, SHEET 22

FAYETTE COUNTY

QUADRANGLE	Uniontown	Uniontown	Uniontown	Uniontown	Uniontown	Uniontown	Uniontown	Uniontown	Uniontown
MAP NUMBER	10	11	12	13	14	15	16	17	18
NAME OF WELL	Piedmont Coal Co. 3	Leo F Heyn 3	Piedmont Coal Co. 5	Piedmont Coal Co. 4	Piedmont Coal Co. 6	Leo F Heyn 4	Indian Creek Coal and Coke Co 1	O.J. Kirby et al 1	Carothers 1
OPERATOR	Peoples Natural Gas	New Penn Dev et al.	Peoples Natural Gas	Peoples Natural Gas	Peoples Natural Gas	New Penn Dev et al	New Penn Dev et al	New Penn Dev. et al.	New Penn Dev et al
TOWNSHIP	South Union	South Union	South Union	South Union	Wharton	Wharton	South Union	Wharton	South Union
LATITUDE	.48 mi N. 39°50'	.27 mi N 39°50'	.12 mi N 39°50'	.01 mi S. 39°50'	.17 mi S. 39°50'	.03 mi S 39°50'	.46 mi. S 39°50'	1.33 mi S 39°50'	1.57 mi S. 39°50'
LONGITUDE	.34 mi W 79°40'	.35 mi W 79°40'	.40 mi W 79°40'	.77 mi W. 79°40'	.51 mi W. 79°40'	.30 mi W 79°40'	.79 mi W 79°40'	1.10 mi. W 79°40'	1.55 mi W. 79°40'
DATE COMPLETED	3-12-41	4-13-41	11-15-41	4-25-42	8-7-42	1-24-42	4-6-39	7-16-42	12-18-41
ELEVATION	2405	2314	2460	2491	2515	2531	2630	2690	2569
MURRYSVILLE	50-136						228-265		
TULLY	6048-6165	5840-5920	5977-6076	6748-6944	6010-6103	6000-6100	6238-6350	6982-7085	
ONONDAGA	6755-7090 Top chert 6800 Show of GAS at 6815 Fault, Onondaga repeats at 7243	6393-6566 Top chert 6394 GAS, 6415-6455 1,762 MCF RP 2095 psi	6540-6744 Top chert 6576 GAS, 6604-6708 1,011 MCF RP 1800 psi	8089- Top chert 8114 SW at 8198, 8204 and 8211	6507- Top chert 6543 GAS, 6554-6564 11,712 MCF RP 1500 psi	6484-6648 Top chert 6504 GAS 6519-6528 5187 MCF	6914-7103 Top chert 6923 First GAS at 6965 908 MCF RP 2910 psi	Top chert 7547 GAS at 7583 and 7588 132 MCF after shot	
ORISKANY	7090-7243 Show of GAS at 7146	6566-6674 Oriskany repeats below fault 7517-7529	6744-6836			6648-	7103-	7762-	
HELDERBERG		6674- Helderberg repeats below fault 7529-7900	6836-						
SALINA									
TOTAL DEPTH	7272	8000 After deepening	7080	8211	6577	6722 After deepening	7147	7943	7092
DEEPEST FORMATION TESTED	Oriskany	Helderberg	Oriskany	Onondaga	Onondaga	Oriskany	Oriskany	Oriskany	Hole lost above Tully
RESULT	2,800 MCF GAS at 7249 and 7257 in fault zone RP 2,200 psi	1,762 MCF GAS 6415-6455 from Onondaga RP 2095 psi	1,011 MCF GAS 6604-6708 from Onondaga RP 1800 psi	SW in Onondaga at 8198, 8204 and 8211	11,712 MCF GAS 6554-6564 from Onondaga RP 1500 psi	5187 MCF GAS 6519-6528 from Onondaga	908 MCF GAS from Onondaga RP 2910 psi	132 MCF GAS from Onondaga after shot	Lost hole while casing did not reach Tully

TABLE I, SHEET 23

FAYETTE COUNTY

QUADRANGLE	Uniontown	Uniontown	Uniontown	Uniontown	+ Uniontown	+ Uniontown	+ Uniontown	+ Uniontown	+ Uniontown
MAP NUMBER	19	20	21	22	23	24	25	26	27
NAME OF WELL	Indian Creek Coal and Coke Co 3	Indian Creek Coal and Coke Co 2	George Walters et al. 2	George Walters et al 1	W.R. Barton Estate 1	W.R. Barton Estate 4	W.R. Barton Estate 2	W.R. Barton Estate 3	W.R. Barton Estate 5
OPERATOR	Wm E Snee et al.	New Penn Dev, et al.	Peoples Natural Gas	Peoples Natural Gas	Greensboro Gas	Greensboro Gas	Greensboro Gas	Greensboro Gas	Greensboro Gas
TOWNSHIP	Wharton	Wharton	Georges	Georges	Georges	Georges	Georges	Georges	Georges
LATITUDE	1.77 mi S 39°50'	2.75 mi N 39°45'	2.37 mi N 39°45'	2.26 mi. N. 39°45'	2.10 mi N 39°45'	1.85 mi. N. 39°45'	1.82 mi N. 39°45'	1.67 mi N 39°45'	1.57 mi N. 39°45'
LONGITUDE	.93 mi. W 79°40'	1.89 mi. W 79°40'	2.07 mi E 79°45'	2.13 mi. E 79°45'	2.02 mi E 79°45'	1.90 mi. E. 79°45'	2.12 mi W. 79°40'	1.99 mi. E 79°45'	1.82 mi E. 79°45'
DATE COMPLETED		7-20-43	6-14-47	10-7-43	5-9-42	1-27-44	11-9-42	1-19-43	12-8-44
ELEVATION	2615	2674	2454	2583	2317	2370	2557	2451	2190
MURRYSVILLE									
TULLY		7555-7660 GAS pocket, 7585	6944-7042	6912-7052	6442-6561	6425-6525	7299-7386	6507-6590 Fault 6781-7021	6118-6237
ONONDAGA		8303-8590 Top chert 8335	7448-7645 Top chert 7468 A little GAS at 7539	7630- Top chert 7660 A little GAS at 7791, 7794 and 7824 50 M.C.F.	7142- Top chert 7168 GAS 1,500 M.C.F. 7147-7237 R.P. 3275 psi	6988-7340 Top chert 7012 1,500 M.C.F. GAS 7020-7108	7784- Top chert 7808 Salt water at 7868 Rose 6,000 feet	7584-7798 Top chert 7631	6795-7073 Top chert 6823 Show GAS 6934-6940
ORISKANY		8590-	7645-7710 A little GAS at 7745			7340-7497		7798- Salt water at 7810	7073-7209 690 M.C.F. GAS at 7073
HELDERBERG									
SALINA									
TOTAL DEPTH		8685	8312	8115	7275	7510	7868	7810	7242
DEEPEST FORMATION TESTED		Oriskany	Helderberg	Onondaga	Onondaga	Oriskany	Onondaga	Oriskany	Oriskany
RESULT		Dry in Onondaga and Oriskany	151 M.C.F. GAS from Onondaga and Oriskany R.P. 2,270 psi	50 M.C.F. GAS from Onondaga, did not reach Oriskany Abandoned as dry hole	1,500 M.C.F. GAS from Onondaga R.P. 3,275 psi	10 GAS blowouts 6737-6920 1,500 M.C.F. GAS from Onondaga 7020-7108	Salt water at 7868 in Onondaga rose 6,000 feet	Salt water at 7810 in Oriskany	16 GAS pockets 6920-6763 Show GAS 6934-6940 in Onondaga 690 M.C.F. GAS at 7073 at Top Oriskany

TABLE I, SHEET 24

FAYETTE COUNTY

QUADRANGLE	+ Uniontown	+ Uniontown	Uniontown	+ Uniontown	+ Uniontown	Uniontown	Uniontown	+ Confluence	+ Morgantown
MAP NUMBER	28	29	30	31	32	33	34	1	1
NAME OF WELL	W.R.Barton Estate 6	W.R.Barton Estate 7	N.E.Murphy 1	W.R.Barton Estate 8	Jesse S Eutsey 1	I.R.Smith Estate 1	I.R.Smith Estate 2	Gregg Neel 1	Allie M Martin 1
OPERATOR	Manufacturers Light and Heat	Manufacturers Light and Heat	Orville Eberly et al.	Manufacturers Light and Heat	Manufacturers Light and Heat	New Penn Dev, et al.	New Penn Dev, et al	New Penn Dev, et al	Peoples Natural Gas
TOWNSHIP	Georges	Georges	Georges	Georges	Georges	Georges	Georges	Stewart	Springhill
LATITUDE	1.34 mi N 39°45'	1.19 mi N 39°45'	1.17 mi N 39°45'	.74 mi N 39°45'	.41 mi N 39°45'	.22 mi N 39°45'	.04 mi N 39°45'	27 mi S 39°55'	.96 mi S 39°45'
LONGITUDE	1.67 mi E. 79°45'	1.47 mi E 79°45'	1.93 mi E 79°45'	1.17 mi E. 79°45'	.98 mi E. 79°45'	.88 mi E 79°45'	.77 mi E 79°45'	.51 mi E. 79°25'	.01 mi W 79°45'
DATE COMPLETED	6-22-46	8-21-46		2-20-49	6-23-47	9-30-46	12-29-47	4-10-42	3-6-48
ELEVATION	2613	2437		2588	2290	2526	2390	2566	2367
MURRYSVILLE								383-402	
TULLY	6520-6616	6402-6535		6535-6610	6263-6363	6490-6570	6504-6600	6840-	7078-7180
ONONDAGA	7172-7425 Top chert 7201 3,000 MCF GAS 7217-7278 RP 2500 psi	7359- Top chert 7401 1,500 MCF GAS RP 2,700 psi		7102-7303 Top chert 7145 2/4 MCF GAS at 7194 RP 1425 psi	6839-7036 Top chert 6873 4300 MCF GAS 6903-6965 RP 1775 psi	Top chert 7062 32,000 MCF GAS at 7063	7133-7320 Top chert 7152 280 MCF GAS 7183-7198	8049-8303 Top chert 8060	7634-7834 Top chert 7661 Show of GAS
ORISKANY	7425-7470			7303-	7036-		7320-7450	8303-8454	7834-7902 Show of GAS
HELDERBERG									
SALINA				Salt 9330-9384 9421-9552 9706-9748 A little salt 10255-10260					
TOTAL DEPTH	7495	7476		10312	7199	7063	7517	8498	8253
DEEPEST FORMATION TESTED	Oriskany	Onondaga		Salina	Oriskany	Onondaga	Oriskany	Oriskany	Oriskany
RESULT	3000 MCF GAS 7217-7278 from Onondaga RP 2,500 psi	1,500 MCF GAS from Onondaga RP 2,700 psi		8 GAS pockets 6767-7060 2/4 MCF GAS from Onondaga RP 1425 psi after acidizing	4300 MCF GAS 6903-6965 from Onondaga RP 1775 psi	8 GAS pockets 6587-6946 32,000 MCF GAS from Onondaga at 7063	280 MCF GAS 7183-7198 from Onondaga before shot 850 MCF GAS after shot	Dry in Onondaga and Oriskany Show of GAS at 8493 16 MCF	Shows of GAS in Onondaga and Oriskany GAS pocket at 8211 Dry hole

TABLE I, SHEET 25

FAYETTE COUNTY

QUADRANGLE	Bruceton	Bruceton	Bruceton	Bruceton	Bruceton	Bruceton	Bruceton		
MAP NUMBER	1	2	3	4	5	6	7		
NAME OF WELL	Wm Hartman 1	A.J.Opperman 1	John Dulick 1	George Steve 1	Smiley 1	Paul E.Dunham 2	Paul E.Dunham 1		
OPERATOR	Peoples Natural Gas	Orville Eberly, et al.	Orville Eberly et al.	Manufacturers Light and Heat	New Penn Dev. et al.	New Penn Dev. et al.	L J Houze Convex Glass		
TOWNSHIP	Springhill	Georges	Georges	Springhill	Georges	Springhill	Wharton		
LATITUDE	.09 mi S 39°45'	18 mi S 39°45'	25 mi S. 39°45'	.33 mi S 39°45'	.50 mi S 39°45'	.65 mi S 39°45'	.98 mi S 39°45'		
LONGITUDE	.71 mi.E. 79°45'	.89 mi.E. 79°45'	.98 mi.E. 79°45'	.21 mi.E. 79°45'	.42 mi.E. 79°45'	.33 mi.E. 79°45'	.51 mi.E. 79°45'		
DATE COMPLETED	5-19-47	3-2-48	7-22-49	1-23-48	6-1-48	1-24-48	6-9-39		
ELEVATION	2354	2358	2415	2537	2314	2320	2199		
MURRYSVILLE							442-517		
TULLY	6560-6638	6390-6468		7353-7473	6605-6710	6789-6912	6627-6705		
ONONDAGA	7089-7533 Top chert 7184	Top chert 6943 1,500 M.C.F. GAS 6949-6966	Top chert 7097 184 M.C.F. GAS after acidizing 7119-7158 R.P. 994 psi	7942-8176 Top chert 8005 42 M.C.F. GAS 8027-8077 after shot Show of salt water	7755-7936 Top chert 7734	7677-7875 Top chert 7710	7508-7698 Top chert 7536 50 M.C.F. GAS at 7609		
ORISKANY	7533- 6,187 M.C.F. GAS 7589-7636 R.P. 2,000 psi		7249-7350	8176-8324	7936-8030	7875-7965	7698-7771		
HELDERBERG									
SALINA									
TOTAL DEPTH	7636	7230	7786	8788	8104	7969	7826		
DEEPEST FORMATION TESTED	Oriskany	Onondaga	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany		
RESULT	618 M.C.F. GAS from Oriskany R.P. 2,000 psi	1,500 M.C.F. GAS from Onondaga 6949-6966	184 M.C.F. GAS from Onondaga 7119-7158 after acidizing R.P. 994 psi	42 M.C.F. GAS from Onondaga after shot Show of salt water Dry	Dry in Onondaga and Oriskany	GAS pocket at 7635 Dry in Onondaga and Oriskany	Show of GAS 50 M.C.F. in Onondaga at 7609		

FOREST COUNTY

QUADRANGLE	Sheffield	Sheffield							
MAP NUMBER	3	4							
NAME OF WELL	Cook 134	E.Collins 1							
OPERATOR	Collins and Richard	W.C.Wasson et al.							
TOWNSHIP	Kingsley	Howe							
LATITUDE	100 mi N 41°35	19 mi S 41°35'							
LONGITUDE	1.91 mi E 79°15'	1.17 mi W. 79°05'							
DATE COMPLETED	1915	10-10-38							
ELEVATION	1242	1830							
MURRYSVILLE-KNAPP		425-468							
TULLY		4786-4804							
ONONDAGA	4400-4461	5130-5192							
ORISKANY	4461-4467 Show of GAS	5192-5204 Show of distillate and SW 5202-5204							
HELDERBERG		5204							
SALINA	Salt 4860-4910 4993-5002 Salt, limestone and shale 5053-5225								
TOTAL DEPTH	5252	5343							
DEEPEST FORMATION TESTED	Salina	Oriskany							
RESULT	GAS pockets 4330-4380 Show of GAS, 4461-4467 in Oriskany Show of GAS 4527-4535 S.W. 5017-5053 1 boiler per hr	11 GAS pockets 5057-5089 Show of distillate and salt water of 5202-5204 in Oriskany							

GREENE COUNTY

QUADRANGLE	Rogersville								
MAP NUMBER	1								
NAME OF WELL	S.G Alley 3								
OPERATOR	Manufacturers Light and Heat								
TOWNSHIP	Richhill								
LATITUDE	1.82 mi N. 39°55'								
LONGITUDE	.91 mi E. 80°30'								
DATE COMPLETED	3-27-42								
ELEVATION	1246								
PITTSBURGH COAL	594-600								
BEREA									
MURRYSVILLE									
TULLY									
ONONDAGA	6776-7016								
ORISKANY	7016-7104 1½ boilers S.W. per hr. 7034								
HELDERBERG									
SALINA									
TOTAL DEPTH	7118								
DEEPEST FORMATION TESTED	Oriskany								
RESULT	S.W in Oriskany								

TABLE I, SHEET 28

	INDIANA COUNTY				JEFFERSON COUNTY				
QUADRANGLE	Smicksburg				Marienville	Punxsutawney			
MAP NUMBER	1				1	1			
NAME OF WELL	J.S. Lightcap 1				Verstine & Kline 8	W.H. Irwin Company's Tract 1			
OPERATOR	T.W. Phillips Gas and Oil				F.C. Deemer	F.C. Deemer			
TOWNSHIP	East Mahoning				Eldred	Gaskill			
LATITUDE	2.09 mi N 40°45'				.05 mi N. 41°15'	2.80 mi N 40°55'			
LONGITUDE	.50 mi E. 79°05'				.97 mi. E. 79°05'	.68 mi W. 78°50'			
DATE COMPLETED	5-22-21				1937	1931			
ELEVATION	1390				1496	1350			
MURRYSVILLE									
TULLY	6860-6950 ?					6524-6694			
ONONDAGA					6086-6156	7168-7237			
ORISKANY					Sandstone absent	7237-7262			
HELDERBERG					6156-6234	7262-7420			
SALINA					Salt 6445-6450 6515-6519 6707-6730 6736-6740 6752-6756	7494- Salt 7713-7753 7783-7793			
TOTAL DEPTH	7002				7156	8227			
DEEPEST FORMATION TESTED	Tully ?				Salina	Salina			
RESULT	Small flow of GAS, 2372-2380 Dry in deeper formations				GAS at 2016 No sandstone at Oriskany horizon Dry in deeper formations	Dry A little salt water 7510-7515 in Salina			

Table 1 (28)

LAWRENCE COUNTY

QUADRANGLE	Neshannock	New Castle	New Castle	New Castle	New Castle	Zelienople			
MAP NUMBER	2	1	2	3	4	1			
NAME OF WELL	Hughes 1	W E Currie 1-4	Lawrence Heichel 1	F G and C C Hill 1	Laura M Miller and Harry F Myers 1	J Scott Munnell 1			
OPERATOR	Freehold Oil and Gas	Carnegie Nat Gas	Carnegie Nat Gas	T.W. Phillips Gas and Oil	T.W. Phillips Gas and Oil and John T. Galey	Jas H Duff et al			
TOWNSHIP	Mahoning	Shenango	Slippery Rock	Slippery Rock	Slippery Rock	Slippery Rock			
LATITUDE	150 mi N 41°00'	1.83 mi S 41°00'	2.71 mi S 41°00'	2.47 mi N 40°55'	1.82 mi N 40°55'	.18 mi S 41°00'			
LONGITUDE	.48 mi E 80°30'	1.16 mi W 80°15'	42 mi W 80°15'	.74 mi W 80°15'	.90 mi W 80°15'	1.71 mi E 80°15'			
DATE COMPLETED	1904	10-16-37	12-28-36	12-42	6-21-42	4-6-34			
ELEVATION	810	1202	1240	1197	1207	1191			
BEREA	180- Show of OIL and GAS		725-766 Show of GAS 764-766	667-705 Show of GAS 670	672-718	664-711 Show OIL 664			
MURRYSVILLE		784-870 S.W. at 812, 822 and 850	785-892 S.W. at 830-835	758-835 Show of OIL 795	770-839				
TULLY						4306-			
ONONDAGA	3680-	4454-4634	4563-4731	4485-4661	4506-4674	4501-4635			
ORISKANY	3900-3960 Very tight	4634-4650	4731- Show GAS 4736 ½ boiler S.W. per hr.	4661-4690 Show of GAS 4666	4674-4714 Show of GAS and OIL 4685-4686	4635-4651 Show of OIL 4638			
SALINA				Salt 5110-5125 5170-5185 5595-5675					
LOCKPORT				5947-6265 Show of GAS 5970					
ALBION — RED MEDINA (GRIMSBY)									
ALBION — WHITE MEDINA (WHIRLPOOL)									
QUEENSTON									
TOTAL DEPTH	4000	4845	4757	6360	4737	4767			
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Lockport	Oriskany	Oriskany			
RESULT	Dry in Oriskany	Dry in Oriskany	Show GAS and ½ boiler S.W. per hr. in Oriskany	Show of GAS in Oriskany and Lockport	Show of GAS and OIL in Oriskany	Show of OIL in Oriskany			

MC KEAN COUNTY

QUADRANGLE	Kinzua	Kinzua	Kinzua	Kinzua	Kinzua	Kinzua	Kinzua	Bradford	Bradford
MAP NUMBER	2	3	4	5	6	7	8	1	2
NAME OF WELL	E.A.Williams 1	L.E.Mallory and Son 1	Kinzua Valley Chemical Co. 1	L.E.Mallory and Son 1	Warrant 3416 4	A.D.Van Scoy 1	Central Pennsylvania Lumber Co. 1	Delo 1	L.D.Wilson 18
OPERATOR	Hiawatha Oil and Gas	Appalachian Development	Appalachian Development	Hiawatha Oil and Gas	South Penn Oil	H.C.Drilling	Penn-Bradford Oil	Bradford Deep Well	South Penn Oil
TOWNSHIP	Foster	Corydon	Corydon	Corydon	Lafayette	Hamilton	Hamilton	Foster	Lafayette
LATITUDE	.54 mi.S 42°00'	1.84 mi.N. 41°55'	1.45 mi.S. 41°55'	2.60 mi.N. 41°50'	2.18 mi.N. 41°50'	.85 mi.N 41°50'	1.70 mi.S 41°50'	1.99 mi.S 42°00'	1.23 mi.N 41°45'
LONGITUDE	1.19 mi.W 78°45'	1.53 mi.E 78°55'	1.53 mi.E 78°55'	.50 mi.W 78°50'	.89 mi.W 78°45'	2.01 mi.W 78°50'	1.12 mi.E 78°55'	3.6 mi.E 78°35	1.44 mi.E 78°45'
DATE COMPLETED	10-12-40	11-43	5-1-43	4-19-40	2-21-44	10-12-37	3-15-39	5-1-14	8-4-48
ELEVATION	2082	2090	1358	1603	2141	2041	1342	1576	1550
TULLY	4018-	4015-	3452-	3795-	4467-	4355-	3760-	3575-	4248-
ONONDAGA	4345-	4323-4398	3770-3835	4166 4231 150 MCF GAS and SW 4187-4190	4816-4874	4701-4750	4070-4117	4065-4135	4655-4727
ORISKANY	4415-4430 No GAS or S.W	4398- 30 MCF. GAS SW at 4401	3835- 1½ bbl. SW per hr.	4231- SW at 4234 rose to top hole	4874- 1 bailer SW per hr.	4750-4768 428 MCF GAS after shot; 40 bbl SW pr day	4117-4143 10 MCF GAS and SW	4135-4155 Show OIL	Sandstone absent
HELDERBERG								4155-4215	4727-4792
SALINA								4235 5085 Salt 4490-4520 4596-4606 4638-4685< 4693-4773	4831-5749 Salt 5221 5256 5403-5420 5555-5577 5585-5600
LOCKPORT								5085-5385	5749-5978
ALBION — RED MEDINA (GRIMSBY)								5560-5642	6160-6209
ALBION — WHITE MEDINA (WHIRLPOOL)								5642-5700	6209-6326
QUEENSTON								5700-	6326-7591
OSWEGO									7591-7652
TOTAL DEPTH	4480	4406	3845	4241	4903	4770	4146	5820	8002
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Albion	Oswego
RESULT	Dry; no GAS or SW in Oriskany	30 MCF GAS in Oriskany SW at 4401 in Oriskany	1½ bbl. SW per hr. from Oriskany	150 MCF GAS and SW at 4187-4190 in Onondago SW at 4234 in Oriskany rose to top hole	1 bailer SW per hr. from Oriskany	428 MCF GAS after shot 40 bbl SW per day from Oriskany GAS soon drowned out	10 M.C.F. GAS and SW in Oriskany SW bailed off	Show of OIL in Oriskany Dry in Albion	Oriskany sandstone absent, dry in Albion and Oswego

MC KEAN COUNTY

QUADRANGLE	Smethport	Smethport	Smethport	Smethport	Mt. Jewett				
MAP NUMBER	1	2	3	4	1				
NAME OF WELL	Glenn Taylor 1	J.J. Higgins 1	Chas Nunn et al 2	M. Zerbe Deep Well	Benjamin Haywood 1				
OPERATOR	New Penn Development	New Penn Dev. & McKean Nat Gas	Allegany Gas	Potter Development	Atlantic Seaboard Natural Gas				
TOWNSHIP	Ceres	Ceres	Liberty	Liberty	Hamlin				
LATITUDE	2.30 mi S. 42°00'	2.07 mi N. 41°55'	1.14 mi N 41°50'	.25 mi S. 41°50'	1.58 mi S. 41°45'				
LONGITUDE	1.55 mi W 78°15'	1.91 mi W. 78°15'	.29 mi W 78°20'	1.37 mi W. 78°20'	1.49 mi E. 78°35'				
DATE COMPLETED	2-17-39	10-31-39	9-3-45	9-3-34	1934				
ELEVATION	1555	1780	1488	1751	1750				
TULLY	3993-4040	4268-4293	3935-3950	4202-4220	4654-4658				
ONONDAGA	4526-4562	4803-	4450-4500	4678-4726	5123-5182				
ORISKANY	4562-4579 No sandstone present	Sandstone absent	4500- Sandstone absent	Sandstone absent	Sandstone absent				
HELDERBERG	Absent			4726-4783	5182-5242				
SALINA	4645-		Salt and dolomite 4850-4965 5130-5330 5605-5785	4808- Salt 5073-5095					
LOCKPORT									
ALBION — RED MEDINA (GRIMSBY)			6426-6492						
ALBION — WHITE MEDINA (WHIRLPOOL)			6515-6564						
QUEENSTON			6564-						
OSWEGO									
TOTAL DEPTH	4701	4906	6615	5135	5269				
DEEPEST FORMATION TESTED	Helderberg	Oriskany	Albion	Helderburg	Helderberg				
RESULT	Dry in Oriskany	Oriskany sandstone absent	Oriskany sandstone absent Dry in Albion	Oriskany sandstone absent	Oriskany sandstone absent				

MERCER COUNTY

QUADRANGLE	Shenango	+ Shenango	✲ Shenango	✲ Stoneboro	+ Stoneboro	✲ Stoneboro
MAP NUMBER	1	2	3	1	2	3
NAME OF WELL	H. Probst 1	Herm. K. Smith 1	A.S.Mc Cullough 1	J. Paul Miller 1	Lowrie Henderson 1	Maude Davidson 1
OPERATOR	Clyde Fisher	Hickman & Hart	Carnegie Nat Gas	Mercer Oil and Gas	United Natural Gas	United Natural Gas
TOWNSHIP	Sugar Grove	West Salem	Jefferson	Lake	Worth	Worth
LATITUDE	1.55 mi N 41°25'	1.20 mi. S. 41°25'	.50 mi N. 41°15'	1.19 mi. N. 41°20'	2.85 mi. S. 41°20'	1.56 mi. N. 41°15'
LONGITUDE	2.14 mi. E 80°25'	1.20 mi E 80°30'	.79 mi. W. 80°20'	1.37 mi. E. 80°10'	2.00 mi E. 80°10'	1.87 mi W. 80°00'
DATE COMPLETED	4-10-26	7-46	2-15-39	10-23-45	11-16-48	1-11-45
ELEVATION	991	1275	1164	1287	1480	1420
BEREA			496-552	489-545 Show of GAS, 520	528-572	374-
MURRYSVILLE			582-587			
TULLY	2895-		3464-	3682-	3918-	3837-
ONONDAGA	2995-3205	3188-3418	3604-3765	3862-3994	4124-	4043-4171
ORISKANY	3205-3220 S.W. at 3205 rose 2965 ft	3418-3430 S.W at 3425 rose 2500 ft	3765-3791 S.W. and show of GAS, 3765-3768 S.W filled hole	3994-4022 S.W and show GAS S.W rose 2500 ft		4171-4172
HELDERBERG	3220-	Show of GAS at 3503	3791-3941 Show SW 3925	4022-4112		4172-4294
SALINA		Salt 3735-3890	3951-4841 Salt 4150-4175 4190-4200 4258-4280 4288-4370 4425-4440 4510-4540	Salt 4386-4400 4425-4475 4535-4546 4636-4650		4301-5200 Salt 4632-4710 4846-4853 4908-4934
LOCKPORT		Show of GAS 4493 S.W at 4510. rose 3000 ft	4841-5097 Show of GAS and S.W 4991-4993	4985-5180 Shows of GAS at 5069-5071 and 5120-5125 S.W 5130-5138		5200-5456 82 M.C.F. GAS, 5377-5454
ALBION — RED MEDINA (GRIMSBY)		Thorold 4772-4780 Grimsby 4780-4870 Show of Oil and GAS	Thorold 5259-5262 Grimsby 5262-5333	Thorold 5400-5429 Grimsby 5429-5494 Show of GAS 5460-5488		Missing
ALBION — WHITE MEDINA (WHIRLPOOL)			5465 5481	5564-5573		Missing
QUEENSTON		4955-	5481-	5573-		Missing
TRENTON						8177- Small show of GAS 8584
BEEKMANTOWN						8834- S.W at 8876-8880 8889-8892
TOTAL DEPTH	3225	4961	5485	5586	4245	8892
DEEPEST FORMATION TESTED	Oriskany	Albion	Albion	Albion	Onondaga	Beekmantown
RESULT	Show of Oil in sand at 725-729 S.W in Oriskany, rose 2965 ft	S.W in Oriskany S.W and show of GAS in Lockport Show of OIL and GAS in Grimsby 4782 and 4828-4835	S.W and show of GAS in Oriskany Show of S.W. in Helderberg Show of GAS and S.W in Lockport	S.W and show of GAS in Oriskany, S.W. and show of GAS in Lockport Show of GAS in Grimsby 75 M.C.F. after shot	57 M.C.F. GAS at 1008 ft. in shallow sand not drilled to Oriskany	82 M.C.F. GAS in Lockport, not increased by acidizing. Small show of GAS in Trenton S.W. in Beekmantown rose 1200 feet

Table 1 (33)

MERCER COUNTY

QUADRANGLE	Stoneboro	Neshannock	Mercer			
MAP NUMBER	4	1	1			
NAME OF WELL	Earl B Minnis 1	C.C.Edeburn 1	S.H.Collins 12			
OPERATOR	United Natural Gas	Wheatland Iron	E.A.Bream			
TOWNSHIP	Worth	Shenango	Springfield			
LATITUDE	1.42 mi N. 41°15'	.75 mi.S. 41°10'	2.40 mi S 41°10'			
LONGITUDE	1.60 mi.W. 80°00'	1.77 mi.W. 80°25'	1.09 mi E 80°15'			
DATE COMPLETED	11-13-42	1888	10-25-41			
ELEVATION	1394	860	1289			
BEREA	362-	291-351	680-734			
MURRYSVILLE			750-770			
TULLY	3828-		4114-			
ONONDAGA	4038-4168	3377-	4280-4424			
ORISKANY	No sandstone		4424-4426 Very small show GAS, 4425			
HELDERBERG	4168-4288 15 M C.F. GAS, 4258		4426-4570			
SALINA	4330-5126 Salt 4528-4535 4552-4561 4650-4697 4978-4982 5009-5024		4612-5500 Salt 4779-4804 4839-4850 4873-4885 4991-5002 5126-5139 5204-5215 5238-5250			
LOCKPORT	5126-5352 297 M C.F GAS 5293-5316		5500-5753 Small show of GAS and a very little S W at 5710 ft			
ALBION — RED MEDINA (GRIMSBY)						
ALBION — WHITE MEDINA (WHIRLPOOL)						
QUEENSTON						
TRENTON						
BEEKMANTOWN						
TOTAL DEPTH	5688	3484	5835			
DEEPEST FORMATION TESTED	Lockport	Onondaga	Lockport			
RESULT	15 M.C.F. GAS in Helderberg 297 MCF GAS in Lockport blew down to 177 MCF	Dry	Very small show GAS in Oriskany Small show of GAS and a very little S.W. in Lockport			

TABLE I, SHEET 34

POTTER COUNTY

QUADRANGLE	Coudersport	+ Coudersport	Coudersport	Coudersport	Coudersport	Coudersport	Coudersport	Coudersport	Coudersport
MAP NUMBER	1	2	3	4	5	6	7	8	9
NAME OF WELL	E. J. Davis 1	Ruby M. Walcott 1	Elmer Kemp 1	Fred Dickerson 1	Plank School 1	Fred Dickerson 1	F.C. and Amy Dickerson 1	Nelson Hemp 1	F.C. and Amy Dickerson (Cole) 3
OPERATOR	New Penn Dev.	Belmont Quad. Drilling	Sylvania	Empire Producing	G.L. Cabot Inc.	Allegany Gas	G.L. Cabot Inc.	Empire Producing	Sylvania
TOWNSHIP	Sharon	Sharon	Sharon	Sharon	Sharon	Sharon	Sharon	Sharon	Sharon
LATITUDE	1.48 mi. S 42°00'	1.89 mi. S. 42°00'	1.93 mi. S. 42°00'	1.78 mi. S. 42°00'	1.94 mi. S. 42°00'	1.84 mi. S. 42°00'	1.66 mi. S. 42°00'	1.88 mi. S. 42°00'	1.56 mi. S. 42°00'
LONGITUDE	1.86 mi. W 78°05'	1.48 mi. W 78°05'	1.34 mi. W 78°05'	1.32 mi. W. 78°05'	1.19 mi. W. 78°05'	1.13 mi. W. 78°05'	1.01 mi. W. 78°05'	0.98 mi. W. 78°05'	0.67 mi. W. 78°05'
DATE COMPLETED	6-5-39	12-23-38	4-25-39	3-31-39	3-23-39	3-3-39	8-11-39	5-29-39	7-15-39
ELEVATION	1999	1874	1910	1913	1896	2002	2127	1989	1998
TULLY	4344-4389	4145-4193	4149-4198	4185-4229	4149-4198	4264-4313	4386-4436	4235-4275	4221-4268
ONONDAGA	4869-	4676-4734	4686-4736	4709-	4669-4723	4785-4823	4909-4963	4764-4807	4745-4800
ORISKANY	4920-	4734-	4736-	4761-	4723-	4823-	4963-	4807-4817	4800-
HELDERBERG									
TOTAL DEPTH	5026	4736	4754	4764	4737	4827	4980	4818	4820
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	17 MCF GAS from Oriskany at 4921, S.W. at 4922	18,500 MCF GAS from Oriskany, R.P. 1925 psi.	26,900 MCF GAS from Oriskany, R.P. 1370 psi.	26,000 MCF GAS from Oriskany, R.P. 1400 psi.	15,800 MCF GAS from Oriskany, R.P. 1575 psi.	12,000 MCF GAS from Oriskany, R.P. 1775 psi.	10,000 MCF GAS from Oriskany, R.P. 306 psi. in 12 hrs.	36,000 MCF GAS from Oriskany, R.P. 830 psi.	15,300 MCF GAS from Oriskany at 4806, R.P. 518 psi.

POTTER COUNTY

QUADRANGLE	Coudersport	Coudersport	Coudersport	Coudersport	Coudersport	Coudersport	Coudersport	Coudersport	Coudersport
MAP NUMBER	10	11	12	13	14	15	16	17	18
NAME OF WELL	M.L. Wilson 1	R.A. Goldsmith 1	R.C. Holmes 2	Kibberville School 1	R. Baldwin 1	Gorton, Kemp et al 1	Mary White 1	R.M. Wolcott 1	J.A. Torrey 1
OPERATOR	G.L. Cabot Inc.	N.Y. State Nat. Gas	Empire Gas and Fuel	Belmont Quad. Drilling	Sylvania	New Penn Dev.	Hanley and Bird and Allegany Gas	Hanley and Bird and Allegany Gas	New Penn Dev.
TOWNSHIP	Sharon	Oswayo	Oswayo	Oswayo	Oswayo	Sharon	Sharon	Sharon	Sharon
LATITUDE	1.35 mi. S. 42°00'	1.12 mi. S. 42°00'	1.67 mi. S. 42°00'	1.49 mi. S. 42°00'	1.99 mi. S. 42°00'	2.02 mi. S. 42°00'	2.37 mi. S. 42°00'	2.87 mi. N. 41°55'	2.78 mi. N. 41°55'
LONGITUDE	0.51 mi. W. 78°05'	0.22 mi. W. 78°05'	0.11 mi. W. 78°05'	0.82 mi. E. 78°05'	0.92 mi. E. 78°05'	1.73 mi. E. 78°10'	2.13 mi. W. 78°05'	2.00 mi. W. 78°05'	1.81 mi. W. 78°05'
DATE COMPLETED	8-31-39	7-29-48	11-27-40	6-26-39	12-7-39	4-16-39	5-14-43	10-8-42	10-6-39
ELEVATION	1833	1798	1936	1987	2158	1667	2026	2054	2085
TULLY	4081 - 4127	4055 - 4105	4246 - 4298	4219 - 4669	4448 -	4005 - 4055	4341 - 4389	4325 - 4385	4371 - 4430
ONONDAGA	4601 - 4653	4577 - 4633	4773 - 4824	4767 - 4824	4973 -	4550 - 4610	4834 - 4911	4854 - 4913	4934 - 5013
ORISKANY	4653 - 4673	4633 -	4824 -	4824 -	5012 -	4610 - 4617	4911 - 4918	4913 -	5013 - 5027
HELDERBERG									
TOTAL DEPTH	4673	4637	4826	4826	5026	4672	4952	4918	5049
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	5,500 MCF GAS from Oriskany, R.P. 230 psi. in 12 hrs.	16 MCF GAS from Oriskany, Show S.W. in Oriskany at 4637	S.W. in Oriskany at 4826	S.W. in Oriskany at 4826, rose 2000 ft. in 14 hrs.	50 MCF GAS from Oriskany, S.W. in Oriskany	Dry in Oriskany	Dry in Oriskany	S.W. in Oriskany at 4918, rose 425 ft. in 14 hrs.	20 gals. S.W. per hr. from Oriskany

TABLE I, SHEET 36

POTTER COUNTY

QUADRANGLE	Coudersport	Coudersport	Coudersport	Coudersport	Coudersport	Coudersport	Coudersport	Coudersport	Coudersport
MAP NUMBER	19	20	21	22	23	24	25	26	27
NAME OF WELL	Ruby M. Wolcott 2	F.C. Dickerson 2	R. Donovan 1	Nelson Hemp 2	Nelson Hemp 1	Ed. Plants 1	Bert Dunshie 1	R.C. Holmes 2	Dunshie 2
OPERATOR	Belmont Quad. Drilling	Allegany Gas	Empire Producing	Belmont Quad. Drilling	Belmont Quad. Drilling	Empire Producing	New Penn Dev.	Empire Producing	New Penn Dev.
TOWNSHIP	Sharon	Sharon	Sharon	Sharon	Sharon	Sharon	Sharon	Sharon	Sharon
LATITUDE	2.31 mi. S. 42°00'	2.52 mi. S. 42°00'	2.67 mi. S. 42°00'	2.48 mi. S. 42°00'	2.11 mi. S. 42°00'	2.46 mi. S 42°00'	2.70 mi. S. 42°00'	2.38 mi. S. 42°00'	2.64 mi. S. 42°00'
LONGITUDE	1.50 mi. W. 78°05'	1.32 mi. W. 78°05'	1.25 mi. W. 78°05'	1.15 mi. W. 78°05'	1.14 mi. W. 78°05'	0.89 mi. W. 78°05'	0.70 mi. W. 78°05'	0.63 mi. W. 78°05'	0.45 mi. W. 78°05'
DATE COMPLETED	4-5-39	10-21-39	8-17-39	8-11-39	3-17-39	6-30-39	5-19-39	11-20-39	1-19-40
ELEVATION	2129	2141	2056	2145	1979	2161	2122	2086	1960
TULLY	4391 – 4439	4391 – 4443	4300 – 4348	4390 – 4443	4269 – 4322	4402 – 4441	4425 – 4472	4332 – 4386	4303 – 4360
ONONDAGA	4940 – 5004	4931 – 4971	4824 – 4878	4915 –	4866 – 4923	4923 – 4965	5080 – 5118	4856 – 4901	4942 – 4992
ORISKANY	5004 –	4971 –	4878 –	4972 –	4923 –	4965 –	5118 –	4901 –	4992 –
HELDERBERG									
TOTAL DEPTH	5007	4975	4886	4984	4925	4967	5126	4905	4997
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	8 MCF GAS from Oriskany at 5004, S.W. in Oriskany at 5005	14,500 MCF GAS from Oriskany	35,000 MCF GAS from Oriskany, R.P. 1315 psi.	25,000 MCF GAS from Oriskany, R.P. 1440 psi.	S.W. in Oriskany at 4924, 2½ bailers per hr.	18,000 MCF GAS. from Oriskany, R.P. 1815 psi.	800 MCF GAS from Oriskany small amt. S.W. in Oriskany at 5126	150 MCF GAS from Oriskany at 4903, S.W. in Oriskany	S.W. in Oriskany at 4992

POTTER COUNTY

QUADRANGLE	Coudersport	Coudersport	Coudersport	Coudersport	Coudersport	Coudersport	Coudersport	Coudersport	Coudersport
MAP NUMBER	28	29	30	31	32	33	34	35	36
NAME OF WELL	Bert Dunshie 3	R.C. Holmes 1	Rathbun and Donovan 1	Bert Dunshie 1	Sarah White 1	Reva Kemp 1	Harry Bunker 1	U.B. Russell Est. 1	Howard Cobb et al 1
OPERATOR	Allegany Gas	Empire Producing	New Penn Dev.	Empire Gas and Fuel	Sylvania	G.L. Cabot Inc.	Belmont Quad. Drilling	Williamsport Oil and Gas	Allegany Gas
TOWNSHIP	Sharon	Oswayo	Oswayo	Oswayo	Sharon	Sharon	Oswayo	Sharon	Clara
LATITUDE	2.86 mi. N. 41°55'	2.32 mi. S. 42°00'	2.79 mi. S. 42°00'	2.75 mi. S. 42°00'	2.47 mi. N. 41°55'	2.53 mi. N. 41°55'	1.63 mi. N 41°55'	0.53 mi. N. 41°55'	2.72 mi. S. 41°55'
LONGITUDE	0.43 mi. W. 78°05'	0.23 mi. W. 78°05'	0.16 mi. W. 78°05'	0.03 mi. W. 78°05'	1.66 mi. W. 78°05'	1.18 mi. W. 78°05'	2.04 mi. W. 78°00'	0.20 mi. E. 78°10'	0.71 mi. W. 78°05'
DATE COMPLETED	2-19-48	10-3-39	9-18-39	8-12-41	11-1-39	6-5-39	12-30-39	8-26-38	10-5-39
ELEVATION	1915	2086	2031	2061	1999	2033	2239	2029	1797
TULLY	4315 - 4357	4357 - 4396	4430 - 4480	4439 - 4485	4284 -	4400 - 4453	4890 - 4946	4549 - 4592	4677 - 4724
ONONDAGA	4866 - 4904	4889 - 4933	4957 - 4997	4975 - 5022	4811 -	5145 - 5197	5457 - 5500	5171 - 5248	5240 - 5268
ORISKANY	4904 -	4933 -	4997 - 5003	5022 -	4863 -	5197 -	5500 -	Oriskany horizon at 5248, Sandstone absent	5268 - 5286
HELDERBERG									
TOTAL DEPTH	4917	4938	5003	5028	4882	5199	5507	5297	5326
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	S.W. in Oriskany rose 900 ft. at 4915	S.W. in Oriskany at 4938, rose 1400 ft.	1,600 MCF GAS from Oriskany and 30 gals. S.W. per hr.	280 MCF GAS from Oriskany. S.W. from Oriskany rose 800 ft. R.P. 720 psi.	S.W. in Oriskany at 4886, 10 gals. per hr.	S.W. in Oriskany at 5198	S.W. in Oriskany at 5501	No sandstone at Oriskany horizon	S.W. in Oriskany, 5 gals. per hr.

TABLE I, SHEET 38

POTTER COUNTY

QUADRANGLE	Coudersport	Coudersport	Coudersport	Coudersport	Coudersport	Coudersport	Coudersport	Coudersport	Coudersport
MAP NUMBER	37	38	39	40	41	42	43	44	45
NAME OF WELL	A. J. White 1	A.J. Carpenter 2	S.J. Booth 2	S.J. Booth 1	Wm. White 1	Oswayo Chem. Co. 1	A. J. Carpenter 18	B.L. Langworthy 2	A. Sturdevant 1
OPERATOR	Hungiville et al	Potter Dev.	Hungiville et al	Hungiville et al	Lycoming Nat. Gas	Potter Dev.	Penn-United Gas	Potter Dev.	Penn-United Gas
TOWNSHIP	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron
LATITUDE	2.83 mi. S. 41°55'	2.60 mi. N. 41°50'	2.80 mi. N. 41°50'	2.63 mi. N. 41°50'	1.61 mi. N. 41°50'	1.59 mi. N. 41°50'	2.31 mi. N. 41°50'	1.98 mi. N. 41°50'	2.05 mi. N. 41°50'
LONGITUDE	0.68 mi. W. 78°00'	0.64 mi. W. 78°00'	0.54 mi. W. 78°00'	0.54 mi. W. 78°00'	1.08 mi. W. 78°00'	0.79 mi. W. 78°00'	0.61 mi. W. 78°00'	0.61 mi. W. 78°00'	0.23 mi. W. 78°00'
DATE COMPLETED	9-28-33	7-27-33	9-17-32	12-3-31	12-19-34	5-3-34	3-30-35	4-11-35	3-30-35
ELEVATION	1985	1835	1973	1851	2293	2205	1952	2068	2023
TULLY	4564 - 4619	4292 -	4485 - 4541	4332 -	4600 - 4643	4517 -	4337 - 4395	4395 - 4443	4352 - 4440
ONONDAGA	5162 -	4874 -	5057 -	4893 -	5181 -	5090 -	4911 -	4972 -	4911 -
ORISKANY	5188 -	4906 -	5088 -	4923 -	5208 -	5111 -	4936 -	4991 -	4932 -
HELDERBERG									
TOTAL DEPTH	5195	4910	5098	4924	5222	5120	4951	5008	4942
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	S.W. in Oriskany rose 4000 ft.	19,000 MCF GAS from Oriskany, R.P. 2060 psi.	7,750 MCF GAS from Oriskany, R.P. 2160 psi.	8,000 MCF GAS from Oriskany, R.P. 2110 psi.	14,500 MCF GAS from Oriskany	18,000 MCF GAS from Oriskany, R.P. 1720 psi.	7,000 MCF GAS from Oriskany, R.P. 710 psi.	6,500 MCF GAS from Oriskany	6,500 MCF GAS from Oriskany

POTTER COUNTY

QUADRANGLE	Coudersport	Coudersport	Coudersport	+ Coudersport	Coudersport	Coudersport	Coudersport	Coudersport	+ Coudersport
MAP NUMBER	46	47	48	49	50	51	52	53	54
NAME OF WELL	A.J. Carpenter 1	B.L. Langworthy 1	John Nugent 1	W.B. Hemphill 1	O.W. Greenman 1	Penn Stave Co. 1	P. Ruppert 1	Chloe Kenyon 1	Milo Simpson et al 1
OPERATOR	Potter Dev.	Potter Dev.	Williamsport Oil and Gas	Lycoming Nat. Gas	Lycoming Nat. Gas	Potter Dev.	United Producing	North Branch Dev.	Appalachian Dev.
TOWNSHIP	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron
LATITUDE	2.50 mi. N. 41°50'	1.93 mi. N. 41°50'	2.49 mi. N. 41°50'	2.06 mi. N. 41°50'	1.04 mi. N. 41°50'	1.23 mi. N. 41°50'	1.06 mi. N. 41°50'	1.37 mi. N. 41°50'	0.85 mi. N. 41°50'
LONGITUDE	0.18 mi. W. 78°00'	0.14 mi. W. 78°00'	0.07 mi. W. 78°00'	0.02 mi. W. 78°00'	1.29 mi. W. 78°00'	1.27 mi. W. 78°00'	1.23 mi. W 78°00'	1.04 mi. W. 78°00'	0.54 mi. W. 78°00'
DATE COMPLETED	11-20-32	12-27-34	6-28-32	1-24-35	12-11-34	8-28-34	3-28-35	12-18-34	10-20-47
ELEVATION	1874	2008	1873	2030	2298	2322	2329	2318	2238
TULLY	4260 - 4308	4348 - 4400	4250 - 4300	4361 - 4409	4653 - 4712	4638 - 4692	4729 -	4630 - 4678	4916 - 4963
ONONDAGA	4850 - 4871	4928 -	4860 -	4940 -	5234 -	5210 -	5299 -	5202 -	5500 - 5517
ORISKANY	4871 -	4944 -	4877 -	4961 -	5264 -	5234 -	5326 -	5226 -	5517 - 5528
HELDERBERG									
TOTAL DEPTH	4872	4952	4886	4972	5270	5239	5336	5240	5530
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	7,250 MCF GAS from Oriskany	10,800 MCF GAS from Oriskany	16,500 MCF GAS from Oriskany, R.P. 2160 psi.	9,600 MCF GAS from Oriskany, R.P. 930 psi.	22,000 MCF GAS from Oriskany, R.P. 1190 psi.	30,000 MCF GAS from Oriskany, R.P. 1460 psi.	13,500 MCF GAS from Oriskany	25,000 MCF GAS from Oriskany R.P. 1130 psi.	Oriskany sandstone tight

TABLE I, SHEET 40

POTTER COUNTY

QUADRANGLE	Coudersport	Coudersport	Coudersport	Coudersport	Coudersport	Genesee	Genesee	Genesee	Genesee
MAP NUMBER	55	56	57	58	59	1	2	3	4
NAME OF WELL	Gray Chem. Co. 1	Chas. Stearns 1	Arthur E. Matteson 1	C.W. Gorham Est. 1	W.H. Allen 1	Fred Markey 1	Margaret Coyle 1	Ella Morley 1	Coyle 1
OPERATOR	Potter Dev.	Potter Dev.	Potter Dev.	Allegany Gas	Potter Dev.	Cunningham Nat. Gas	D. Y. M.	G. L. Cabot Inc.	C.E. Updegraff et al
TOWNSHIP	Clara	Hebron	Hebron	Hebron	Roulette	Oswayo	Oswayo	Oswayo	Oswayo
LATITUDE	0.01 mi. N. 41°50'	0.29 mi. N. 41°50'	0.75 mi. S. 41°50'	0.55 mi. S 41°50'	2.01 mi. S. 41°50'	0.11 mi. S. 42°00'	0.72 mi. S. 42°00'	0.93 mi. S. 42°00'	0.52 mi. S. 42°00'
LONGITUDE	0.94 mi. W. 78°05'	0.04 mi. E. 78°05'	0.11 mi. W 78°05'	1.69 mi. E. 78°05'	1.70 mi. W. 78°05'	0.62 mi. E. 78°00'	0.69 mi. E. 78°00'	0.84 mi. E. 78°00'	1.17 mi. E. 78°00'
DATE COMPLETED	12-14-33	6-1-33	8-26-32	10-21-41	3-2-33	5-15-39	4-22-43	12-9-39	11-4-39
ELEVATION	2176	2026	2180	2213	2217	2086	2113	2178	2190
TULLY	4799 – 4850	4537-4582	4567 – 4615	5109 – 5161	4707 – 4752	4189 – 4241	4301 – 4355	4420 – 4470	4325 –
ONONDAGA	5380 – 5405	5106 – 5154	5147 – 5174	5691 – 5709	5245 –	4747 –	4868 – 4913	4986 – 5022	4826 –
ORISKANY	Sandstone absent	5154 – 5163	5174 – 5179	Oriskany horizon at 5709 sandstone absent	Oriskany horizon at 5286 sandstone absent	4783 –	4913 –	5022 –	4893 –
HELDERBERG			5179 – 5245						
SALINA			5312 – salt 5528-5533 salt 5540-5561						
LOCKPORT									
ALBION – RED MEDINA (GRIMSBY)									
ALBION – WHITE MEDINA (WHIRLPOOL)									
QUEENSTON									
TOTAL DEPTH	5488	5247	5561	5803	5369	4808	4923	5037	4897
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Helderberg	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	No sandstone at Oriskany horizon	4ft. hard sandstone in Oriskany formation, Dry	Oriskany consists of sandy limestone, Shot 200 qts. 5160-5180 Dry	No sandstone at Oriskany horizon	No sandstone at Oriskany horizon	13,400 MCF GAS from Oriskany, R.P. 340 psi.	180 MCF GAS from Oriskany	10 MCF GAS from Oriskany at 5034, S.W. at 5037, rose 1200 ft. in 36 hrs.	Show Gas in Oriskany S.W. from Oriskany rose 1400 ft.

POTTER COUNTY

QUADRANGLE	Genesee	Genesee	+ Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee
MAP NUMBER	5	6	7	8	9	10	11	12	13
NAME OF WELL	Thos. Hart Est. 1	Cath. Tormey 1	Michael Moran 1	Thos. Hart Est. 2	John Moran 1	George Carroll 1	F. Roche 1	M. Fitzstephens 1	Frederick W. Clark 1
OPERATOR	Cunningham Nat. Gas	G. L. Cabot Inc.	G. L. Cabot Inc.	Cunningham Nat. Gas	Cunningham Nat. Gas	Cunningham Nat. Gas	Cunningham Nat. Gas	Fitzstephens et al	C.E. Updegraff et al
TOWNSHIP	Oswayo	Oswayo	Oswayo	Oswayo	Oswayo	Oswayo	Genesee	Genesee	Bingham
LATITUDE	0.12 mi. S. 42°00'	0.49 mi. S. 42°00'	0.40 mi. S. 42°00'	0.20 mi. S. 42°00'	0.51 mi. S. 42°00'	0.99 mi. S. 42°00'	0.11 mi. S. 42°00'	1.76 mi. S. 42°00'	1.55 mi. S. 42°00'
LONGITUDE	1.23 mi. E. 78°00'	1.30 mi. E. 78°00'	1.49 mi. E. 78°00'	1.50 mi. E. 78°00'	1.69 mi. E. 78°00'	1.76 mi. E. 78°00'	1.97 mi. E. 78°00'	0.48 mi. W. 77°55'	0.77 mi. W. 77°45'
DATE COMPLETED	7-29-38	11-16-39	9-5-39	11-28-39	2-28-32	12-19-34	9-24-39	7-3-35	6-19-40
ELEVATION	2150	2124	2172	2200	2087	2179	2155	2146	2330
TULLY	4230-	4275-4324	4322-4370	4297-	4288-4329	4455-4505	4292-	4690-	4826-4887
ONONDAGA	4804-	4833-4867	4876-4905	4881-	4852-	5034-	4827-	5270-	5461-5497
ORISKANY	4877-	4867-	4905-	4919-	4875-	5051-	4877-	5290-	5497-
HELDERBERG									
TOTAL DEPTH	4883	4872	4920	4921	4879	5053	4886	5300	5504
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	S.W. in Oriskany at 4883, rose 2000ft.	25 MCF GAS from Oriskany at 4869-4872, and S.W. which rose 800ft.	35,000 MCF GAS from Oriskany, R.P. 825 psi.	35,000 MCF GAS from Oriskany, S.W. in Oriskany	8,000 MCF GAS from Oriskany, much S.W. R.P. 1950 psi.	S.W. in Oriskany at 5051	25,000 MCF GAS from Oriskany	S.W. in Oriskany	S.W. in Oriskany at 5502, rose 550ft.

POTTER COUNTY

QUADRANGLE	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee
MAP NUMBER	14	15	16	17	18	19	20	21	22
NAME OF WELL	Mary Lebar 1	Carpenter-Young 1	R.L. Holbert 1	Clayton Webster 1	Whitney-Duke 1	Fred Whitney 1	West Bingham Grange 1	Norma Patterson 1	Wm. Cobb 1
OPERATOR	G.L. Cabot Inc.	Hanley and Bird	Hanley and Bird and Allegany Gas	Hanley and Bird	G.L. Cabot Inc.	C.E. Updegraff et al	G.L. Cabot Inc.	C.E. Updegraff et al	Penn-York Nat. Gas
TOWNSHIP	Bingham	Bingham	Bingham	Bingham	Bingham	Bingham	Bingham	Bingham	Bingham
LATITUDE	2.28 mi. S. 42°00'	2.77 mi. S. 42°00'	2.68 mi. S 42°00'	2.05 mi. S. 42°00'	1.97 mi. N. 41°55'	1.99 mi. N. 41°55'	1.84 mi. N. 41°55'	1.90 mi. N. 41°55'	1.98 mi. N. 41°55'
LONGITUDE	1.61 mi. E. 77°50'	1.10 mi. W. 77°45'	0.82 mi. W. 77°45'	0.00 mi. W 77°45'	0.22 mi. W. 77°50'	0.83 mi. E. 77°50'	0.86 mi. E. 77°50'	0.97 mi. E 77°50'	0.99 mi. E. 77°50'
DATE COMPLETED	12-19-38	11-8-41	10-7-42	5-26-42	8-9-38	1-20-39	9-14-38	5-19-39	6-5-39
ELEVATION	2209	2112	2011	2169	2094	1777	1779	1783	1784
TULLY	4764 - 4816	4554 - 4602	4492 - 4544	4635 - 4680	4600 -	4238 -	4240 - 4293	4232 - 4265	4239 - 4280
ONONDAGA	5404 - 5443	5190 - 5226	5131 - 5163	5290 - 5333	5230 -	4855 -	4870 - 4901	4863 - 4892	4856 - 4896
ORISKANY	5443 -	5226 -	5163 -	5336 -	5255 -	4891 -	4901 -	4892 -	4896 -
HELDERBERG									
TOTAL DEPTH	5448	5237	5183	5343	5259	4902	4909	4901	4908
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	20 MCF GAS from Oriskany. S.W. at 5446	760 MCF GAS from Oriskany R.P. 500 psi.	185 MCF GAS from Oriskany at 5166-5173. 95 MCF GAS after shot. S.W. at 5182	S.W. in Oriskany 1 bailer per hr. at 5340 ft.	S.W. in Oriskany	6,500 MCF GAS from Oriskany	3,700 MCF GAS from Oriskany at 4905 ft.	Show of GAS from Oriskany at 4894. S.W. in Oriskany at 4894-4897	1,900 MCF GAS from Oriskany at 4902-4907

POTTER COUNTY

QUADRANGLE	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee
MAP NUMBER	23	24	25	26	27	28	29	30	31
NAME OF WELL	Ella Ransom 1	Fred McCarthy 1	Ray Harrison 1	Ray Harrison 2	Ladd Est. 1	Seldon Lewis 1	Costello and Thompson 1	Hile Estate 1	Theodore Cobb 1
OPERATOR	G.L. Cabot Inc.	N.Y. State Nat. Gas	Sylvania	Sylvania	N.Y. State Nat. Gas	H.R. VanGilder et al	Beal and McCandless	Williamsport Nat. Gas	C.E. Updegraff et al
TOWNSHIP	Bingham	Bingham	Bingham	Bingham	Bingham	Bingham	Genesee	Genesee	Genesee
LATITUDE	2.05 mi. N. 41°55'	2.66 mi. N. 41°55'	2.42 mi. N. 41°55'	2.63 mi. N. 41°55'	2.58 mi. N. 41°55'	2.52 mi. N 41°55'	1.06 mi. N. 41°55'	1.10 mi. N. 41°55'	1.19 mi. N. 41°55'
LONGITUDE	1.93 mi. E. 77°50'	1.93 mi. E. 77°50'	1.95 mi. E. 77°50'	2.12 mi. E. 77°50'	1.99 mi. W. 77°45'	1.44 mi. W. 77°45'	1.17 mi. E. 77°55'	1.29 mi. E. 77°55'	1.50 mi. E. 77°55'
DATE COMPLETED	9-20-39	3-30-39	1-2-39	4-26-39	5-18-39	6-23-39	10-24-36	8-5-35	7-3-35
ELEVATION	1960	2014	2050	2136	2072	1940	1870	1887	1953
TULLY	4501-4558	4466-4518	4499-4550	4587-4640	4509-4577	4429-4470	4354-4404	4367-4419	4416-4473
ONONDAGA		5102-5140	5122-5156	5217-5265	5143-5184	5070-5110	4962-	4980-	5040-
ORISKANY		5140-	5156-5176	5265-5284	5184-5204	5110-	5006-	5004-	5067-
HELDERBERG									
TOTAL DEPTH	5300	5151	5177	5285	5205	5113	5014	5021	5080
DEEPEST FORMATION TESTED	Tully	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	Abandoned above Oriskany	7,500 MCF GAS from Oriskany at 5141, R.P. 825 psi.	9,000 MCF GAS from Oriskany at 5158 R.P. 1175 psi.	5,500 MCF GAS from Oriskany R.P. 790 psi.	2,000 MCF GAS from Oriskany at 5191-5203, R.P. 635 psi.	S.W. in Oriskany, rose 300 ft.	15,000 MCF GAS from Oriskany	24,000 MCF GAS from Oriskany	27,000 MCF GAS from Oriskany, R.P. 1870 psi.

TABLE I, SHEET 44

POTTER COUNTY

QUADRANGLE	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee
MAP NUMBER	32	33	34	35	36	37	38	39	40
NAME OF WELL	W. Burrell 1	W. Burrell 2	Duke Estate 1	Charles Morris 1	Earl A. Hill 1	H.O. Perry 1	Rufus Johnson 1	F. Whitney 1	G.L. Tarbox 1
OPERATOR	Miller, Ake et al	Potter Dev.	G. L. Cabot Inc.	Penn-United Gas	Sylvania	French et al	G. L. Cabot Inc.	N.Y. State Nat. Gas	N.Y. State Nat. Gas
TOWNSHIP	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Bingham	Bingham	Bingham
LATITUDE	0.83 mi. N. 41°55'	0.93 mi. N. 41°55'	1.75 mi. N. 41°55'	0.79 mi. N. 41°55'	0.94 mi. N. 41°55'	1.51 mi. N. 41°55'	1.56 mi. N. 41°55'	1.53 mi. N. 41°55'	1.55 mi. N. 41°55'
LONGITUDE	1.78 mi. W. 77°50'	1.75 mi. W. 77°50'	1.72 mi. W. 77°50'	1.62 mi. W. 77°50'	1.43 mi. W. 77°50'	0.68 mi. W. 77°50'	0.36 mi. W. 77°50'	0.07 mi. W. 77°50'	0.82 mi. W. 77°45'
DATE COMPLETED	5-14-36	3-11-36	3-2-36	7-11-35	8-24-35	4-8-38	11-10-37	7-16-36	9-29-47
ELEVATION	2074	2104	2198	2045	2106	1947	2106	2011	2269
TULLY	4465-4513	4533-4580	4722-4771	4457-4509	4525-4576	4466-4520	4573-4624	4454-4503	4812-4867
ONONDAGA	5093-	5145-	5342-	5085-	5146-	5076-5114	5200-	5080-	5462-5500
ORISKANY	5119-	5167-	5370-	5102-	5169-	5114-	5227-	5104-	5500-5520
HELDERBERG									
TOTAL DEPTH	5127	5173	5376	5114	5177	5118	5245	5115	5538
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	18,000 MCF GAS from Oriskany	20,000 MCF GAS from Oriskany at 5168	S.W. in Oriskany rose 200 ft. in 3½ hr.	25,000 MCF GAS from Oriskany, R.P. 1890 psi.	24,000 MCF GAS from Oriskany	S.W. in Oriskany rose 1100 ft.	6,000 MCF GAS from Oriskany	4,200 MCF GAS from Oriskany at 5108	S.W. in Oriskany 4 gals. per hr. at 5510

POTTER COUNTY

QUADRANGLE	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee
MAP NUMBER	41	42	43	44	45	46	47	48	49
NAME OF WELL	U.B. Russell 1	W.B. Hall 1	Theo. Cobb. 1	M. and J. Sanford 1	O'Donnell Bros. 1	F. Estes 2	L. Thompson 1	Earl Pye 1	Guy Thompson 1
OPERATOR	French et al	Ward Wasson et al	G.L. Cabot Inc.	N.Y. State Nat. Gas	C.E. Updegraff et al	Bayless Nat. Gas	Slocum et al	Bayless Nat. Gas	G.L. Cabot Inc.
TOWNSHIP	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee
LATITUDE	0.07 mi. N. 41°55'	0.43 mi. N. 41°55'	0.07 mi. N. 41°55'	0.08 mi. N. 41°55'	0.58 mi. N. 41°55'	0.05 mi. S 41°55'	0.66 mi. N. 41°55'	0.16 mi. N. 41°55'	0.68 mi. N. 41°55'
LONGITUDE	0.78 mi. W. 77°55'	0.14 mi. W. 77°55'	0.05 mi. E 77°55'	1.08 mi. E. 77°55'	1.06 mi. E. 77°55'	1.22 mi. E. 77°55'	1.32 mi. E. 77°55'	1.35 mi. E. 77°55'	1.38 mi. E. 77°55'
DATE COMPLETED	2-37	4-22-37	8-27-36	5-17-35	3-28-35	9-13-34	8-13-35	12-13-34	9-3-36
ELEVATION	2357	2260	2185	2101	1906	2165	1960	2112	1950
TULLY		4758 - 4809	4627 - 4677	4481 - 4533	4333 -	4543-4593	4390 -	4488 - 4537	4378 - 4429
ONONDAGA	5470 -	5330 -	5248 -	5091 -	4975 -	5143 -	4995 -	5103 -	4979 -
ORISKANY	5505 -	5372 -	5280 -	5120 -	5012 -	5178 -	5027 -	5134 -	5014 -
HELDERBERG									
TOTAL DEPTH	5507	5387	5301	5131	5015	5190	5037	5144	5031
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	S.W. in Oriskany	7,000 MCF GAS from Oriskany R.P. 680 psi.	14,500 MCF GAS from Oriskany	21,500 MCF GAS from Oriskany R.P. 1950 psi.	38,000 MCF GAS from Oriskany	22,500 MCF GAS from Oriskany R.P. 2080 psi.	32,000 MCF GAS from Oriskany	35,000 MCF GAS from Oriskany R.P. 2050 psi.	21,500 MCF GAS from Oriskany

POTTER COUNTY

QUADRANGLE	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee
MAP NUMBER	50	51	52	53	54	55	56	57	58
NAME OF WELL	F Estes 1	Mary Pye et al 1	Bessie Ropan 1	Wm. Cobb 1	George Burd 2	George Burd 1	Z. L James 4	Z. L. James 1	C. W. Nelson Est. 1
OPERATOR	Bayless Nat. Gas	N.Y. State Nat. Gas	N. Y. State Nat. Gas	Penn-York Nat. Gas	Hanley and Bird	Hanley and Bird	Sylvania	Sylvania	French et al
TOWNSHIP	Genesee	Genesee	Genesee	Allegany	Allegany	Allegany	Allegany	Allegany	Allegany
LATITUDE	0.01 mi. S. 41°55'	0.28 mi. N. 41°55'	0.59 mi. N. 41°55'	0.86 mi. S. 41°55'	0.70 mi. S. 41°55'	0.71 mi. S 41°55'	0.88 mi. S. 41°55'	1.06 mi. S. 41°55'	0.56 mi. S. 41°55'
LONGITUDE	1.46 mi. E. 77°55'	1.52 mi. E. 77°55'	2.03 mi E 77°55'	0.80 mi. W. 77°55'	0.61 mi. W. 77°55'	0.37 mi. W. 77°55'	0.19 mi. W. 77°55'	0.17 mi. W. 77°55'	0.15 mi. W. 77°55'
DATE COMPLETED	10-11-34	5-9-35	6-11-36	9-19-35	2-2-36	9-5-35	10-11-35	6-6-35	9-9-37
ELEVATION	2122	2022	2184	2134	2257	2260	2193	2181	2217
TULLY	4495-4550	4400-4459	4565-4627	4600-4654	4704-4755	4685-4737	4623-	4636-	4616-4668
ONONDAGA	5111-	5016-	5185-	5196-	5322-5340	5298-5321	5237-	5237-	5243-5268
ORISKANY	5141-	5047-	5217-	5231-	5340-5346	5324-5330	5258-	5261-	5268-
HELDERBERG									
TOTAL DEPTH	5149	5062	5229	5244	5346	5330	5272	5268	
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	27,250 MCF GAS from Oriskany, R.P. 2100 psi.	33,000 MCF GAS from Oriskany, R.P. 1935 psi.	21,500 MCF GAS from Oriskany, R.P. 1245 psi.	20,000 MCF GAS from Oriskany, R.P. 1700 psi.	17,000 MCF GAS from Oriskany, R.P. 1910 psi.	25,000 MCF GAS from Oriskany, R.P. 1740 psi.	24,250 MCF GAS from Oriskany	25,000 MCF GAS from Oriskany, R.P. 1900 psi.	8,000 MCF GAS from Oriskany

POTTER COUNTY

QUADRANGLE	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee
MAP NUMBER	59	60	61	62	63	64	65	66	67
NAME OF WELL	A. Bishop 1	Z.L. James 2	Z.L. James 3	Cath. Currier 2	Cath. Currier 1	Cath. Currier 1	G. Estes 1	W.L. Gale 1	Frank Osgood 1
OPERATOR	N.Y. State Nat. Gas	Sylvania	Sylvania	United Producing	United Producing	Electro-Geometer	Electro-Geometer	Hammondsport Oil and Gas	Hanley and Bird and Allegany Gas
TOWNSHIP	Allegany	Allegany	Allegany	Allegany	Genesee	Allegany	Genesee	Allegany	Allegany
LATITUDE	0.59 mi. S. 41°55'	0.87 mi. S. 41°55'	0.90 mi. S. 41°55'	0.57 mi. S. 41°55'	0.27 mi. S. 41°55'	0.39 mi. S. 41°55'	0.22 mi. S. 41°55'	0.57 mi. S. 41°55'	0.81 mi. S. 41°55'
LONGITUDE	0.03 mi. E. 77°55'	0.10 mi. E. 77°55'	0.27 mi. E. 77°55'	0.69 mi. E. 77°55'	1.03 mi. E. 77°55'	1.17 mi. E. 77°55'	1.29 mi. E. 77°55'	1.34 mi. E. 77°55'	1.56 mi. E. 77°55'
DATE COMPLETED	9-19-35	5-9-35	8-1-35	8-29-35	8-23-34	1-3-35	8-29-33	10-31-32	4-26-40
ELEVATION	2207	2110	2032	2048	2087	2165	2176	2211	2056
TULLY	4610 - 4660	4548 - 4603	4476 -	4460 -	4481 - 4528	4572 -	4565 - 4612	4795 - 4829	5000 - 5070
ONONDAGA	5216 -	5150 -	5089 -	5067 -	5082 -	5164 -	5167 - 5198	5692 - 5732	5641 - 5659
ORISKANY	5245 -	5168 -	5116 -	5097 -	5115 -	5198 -	5198 -	5732 -	5659 - 5687
HELDERBERG									
TOTAL DEPTH	5259	5175	5124	5119	5129	5205	5200	5744	5692
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	30,000 MCF GAS from Oriskany, R.P. 1700 psi.	24,000 MCF GAS from Oriskany, R.P. 1920 psi.	26,000 MCF GAS from Oriskany	29,000 MCF GAS from Oriskany	28,000 MCF GAS from Oriskany, R.P. 2075 psi.	22,500 MCF GAS from Oriskany, R.P. 2030 psi.	13,000 MCF GAS from Oriskany, R.P. 2110 psi.	S.W. in Oriskany	Dry in Oriskany

TABLE I, SHEET 48

POTTER COUNTY

QUADRANGLE	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee
MAP NUMBER	68	69	70	71	72	73	74	75	76
NAME OF WELL	Wm. Hosley 1	Stella Porter 1	J. W. Wells 1	Effie Slingerland 1	E. A. Furman 1	Merle Scoville 1	Wm. Cobb 1A	Wm. Cobb 1	S. J. Booth 3
OPERATOR	C.E. Updegraff et al	G.L. Cabot Inc.	Slocum et al	Hanley and Bird	Cowanesque Gas	Appalachian Dev.	G.L. Cabot Inc.	Sylvania	Hungiville et al
TOWNSHIP	Ulysses	Allegany	Allegany	Allegany	Allegany	Allegany	Allegany	Allegany	Hebron
LATITUDE	0.72 mi. S. 41°55'	1.21 mi. S. 41°55'	1.27 mi. S. 41°55'	1.23 mi. S. 41°55'	1.49 mi. S. 41°55'	1.81 mi. S. 41°55'	2.09 mi. S. 41°55'	1.71 mi. S. 41°55'	2.66 mi. N. 41°50'
LONGITUDE	0.91 mi. W. 77°45'	0.42 mi. W. 77°55'	0.28 mi. W. 77°55'	0.25 mi. W. 77°55'	0.22 mi. W. 77°55'	0.63 mi. E. 77°55'	1.16 mi. E. 77°55'	1.18 mi. E. 77°55'	0.05 mi. E. 78°00'
DATE COMPLETED	9-1-39	10-8-36	11-27-34	4-10-35	9-5-35	3-15-48	3-28-39	8-28-48	9-11-34
ELEVATION	2072	2097	2088	2097	2113	2223	2235	2191	2191
TULLY	4625 - 4683	4570 - 4618	4561 - 4619	4567 - 4621	4758 - 4860	5025 - 5076	5047 - 5100	4975 - 5028	4606 -
ONONDAGA	5281 -	5163 -	5187 -	5176 - 5196		5643 - 5665	5670 - 5693	5595 - 5614	5195 -
ORISKANY	5306 -	5181 -	5212 -	5198 - 5206		5665 - 5667	5693 - 5703	5614 - 5620	5217 -
HELDERBERG									
TOTAL DEPTH	5364	5202	5216	5206	5683	5667	5703	5620	5231
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Tully	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	Dry in Oriskany	22,500 MCF GAS from Oriskany, R.P. 980 psi.	20,000 MCF GAS from Oriskany, R.P. 2025 psi.	25,000 MCF GAS from Oriskany, R.P. 1920 psi.	Abandoned above Oriskany	700 MCF GAS from Oriskany, 5666 - 5667 S.W. at 5667	S.W. in Oriskany, rose 200 ft.	50 MCF GAS from Oriskany at 5619, S.W. at 5619	9,000 MCF GAS from Oriskany, R.P. 1440 psi.

POTTER COUNTY

QUADRANGLE	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee
MAP NUMBER	77	78	79	80	81	82	83	84	85
NAME OF WELL	E.N Clair 1	U.B. Phelps 1	R and G. Carmer 1	Homer Phelps 1	John Higley 2	Cummings 1	Ed Willsey 1	U.B. Russell 1	P. Greene 1
OPERATOR	G H Rogers et al	United Producing	Lycoming Nat. Gas	Sylvania	Sylvania	Potter Dev.	United Producing	Penn-United Gas	G. H. Schrack et al
TOWNSHIP	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron
LATITUDE	2.54 mi. S. 41°55'	2.79 mi. N. 41°50'	2.83 mi. S. 41°55'	2.65 mi. N. 41°50'	2.83 mi. N. 41°50'	2.83 mi. S. 41°55'	2.82 mi. N. 41°50'	2.89 mi. S. 41°55'	2.65 mi. N. 41°50'
LONGITUDE	0.45 mi. E. 78°00'	1.05 mi. E. 78°00'	1.08 mi. E. 78°00'	1.10 mi. E. 78°00'	1.29 mi. E. 78°00'	1.36 mi. E. 78°00'	1.51 mi. E. 78°00'	1.65 mi. E. 78°00'	1.69 mi. E. 78°00'
DATE COMPLETED	10-21-32	5-10-34	1-24-35	3-30-33	1-24-35	9-13-34	8-23-34	2-23-34	9-19-33
ELEVATION	2156	2214	2228	2160	2176	2210	2155	2220	2162
TULLY	4690-4732	4629-4676	4656-	4551-4597	4604-	4640-4693	4613-4663	4692-4742	4590-
ONONDAGA	5266-5289	5216-	5255-	5141-5164	5175-	5235-	5182-	5265-	5236-
ORISKANY	5289-5290	5227-	5287-	5164-	5192-	5254-	5206-	5281-	5289-
HELDERBERG									
TOTAL DEPTH	5295	5240	5292	5170	5237	5268	5218	5291	5295
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	3,500 MCF GAS from Oriskany, R.P. 2175 psi.	13,765 MCF GAS from Oriskany, R.P. 1720 psi.	2,250 MCF GAS from Oriskany, R.P. 1040 psi.	12,000 MCF GAS from Oriskany, R.P. 2125 psi.	2,500 MCF GAS from Oriskany	9,700 MCF GAS from Oriskany, R.P. 1465 psi.	25,000 MCF GAS from Oriskany, R.P. 1495 psi.	14,000 MCF GAS from Oriskany, R.P. 1822 psi.	65,471 MCF GAS from Oriskany, R.P. 2000 psi.

POTTER COUNTY

QUADRANGLE	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee
MAP NUMBER	86	87	88	89	90	91	92	93	94
NAME OF WELL	Ernest Meister 1	Potter County Commissioners 1	Mamie Cole 1	W.B. Bennett 1	Burt and Lyman 1	A.T. Crittenden 1	E. Sturdevant 1	Nancy Wilcox 1	W. Hillegas 1
OPERATOR	Lycoming Nat Gas	James H. Duff et al	Allegany Gas	Lycoming Nat. Gas	Penn-United Gas	North Branch Dev.	Hungiville et al	Sylvania	Lycoming Nat. Gas
TOWNSHIP	Hebron	Allegany	Allegany	Ulysses	Hebron	Hebron	Hebron	Hebron	Hebron
LATITUDE	2.62 mi. S. 41°55'	2.24 mi. S. 41°55'	2.77 mi. N. 41°50'	2.64 mi. S. 41°55'	2.48 mi. N. 41°50'	2.27 mi. N. 41°50'	2.51 mi. N 41°50'	2.59 mi. N. 41°50'	2.45 mi. N. 41°50'
LONGITUDE	1.85 mi. E. 78°00'	2.01 mi. W. 77°55'	1.98 mi. W. 77°55'	1.23 mi. W. 77°45'	0.03 mi. E. 78°00'	0.06 mi. E. 78°00'	0.21 mi. E. 78°00'	0.44 mi. E. 78°00'	0.89 mi. E. 78°00'
DATE COMPLETED	6-28-34	2-24-34	7-30-40	8-20-34	12-4-34	7-20-34	1-26-34	8-17-33	6-28-34
ELEVATION	2230	2259	2272	2326	1894	2177	1940	2130	2167
TULLY	4718-	4753-	5135-5190 5282-5312	4555-4604	4281-4330	4525-4564	4325-	4512-4564	4549-4594
ONONDAGA	5305-	5371-	6355-6379	5215-	4860-	5102-	4900-	5091-	5136-
ORISKANY	5329-	5403-	6379	5231-	4875-	5128-	4934-	5113-	5154-
HELDERBERG									
TOTAL DEPTH	5353	5405	6402	5552	4895	5144	4949	5118	5170
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	3,100 MCF GAS from Oriskany, R.P. 1600 psi	S.W. from Oriskany, rose 2500 ft in 12 hrs.	3/4 bailer S.W. from Oriskany, 6386-6388	Dry in Oriskany	8,300 MCF GAS from Oriskany, R.P. 1150 psi.	17,000 MCF GAS from Oriskany, R.P. 1520 psi.	12,000 MCF GAS from Oriskany, R.P. 1850 psi.	14,000 MCF GAS from Oriskany, R.P. 2030 psi.	14,800 MCF GAS from Oriskany, R.P. 1560 psi.

POTTER COUNTY

QUADRANGLE	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee
MAP NUMBER	95	96	97	98	99	100	101	102	103
NAME OF WELL	Burt and Lyman 2	Tassell Est. 1	Tassell Est. 2	John Higley 1	Tassell Est. 3	L.D. Champlin 2	Ed. Willsey 2	S. Gooch 2	L.D. Champlin 1
OPERATOR	N.Y. State Nat. Gas	Wyoga Oil and Gas	Wyoga Oil and Gas	Sylvania	Wyoga Oil and Gas	J.B. Reed et al	United Producing	Hanley and Bird	J.B. Reed et al
TOWNSHIP	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron	Allegany
LATITUDE	1.84 mi. N. 41°50'	2.53 mi. N. 41°50'	2.41 mi. N. 41°50'	2.53 mi. N. 41°50'	2.19 mi. N. 41°50'	2.06 mi. N. 41°50'	2.44 mi. N. 41°50'	2.61 mi. N 41°50'	1.96 mi. N. 41°50'
LONGITUDE	0.91 mi. E. 78°00'	1.02 mi. E. 78°00'	1.04 mi. E. 78°00'	1.36 mi. E. 78°00'	1.43 mi. E. 78°00'	1.47 mi. E. 78°00'	1.52 mi. E. 78°00'	1.81 mi. E. 78°00'	1.91 mi. E. 78°00'
DATE COMPLETED	8-30-40	8-4-32	11-12-32	1-26-34	10-3-35	3-3-34	1-15-34	11-19-34	2-26-33
ELEVATION	2243	2034	2212	2223	2269	2260	2226	2178	2178
TULLY	4932-4986	4398-4460	4622-4660	4684-	5012-5067	5030-	4956-	5003-5050	4975-
ONONDAGA	5525-5545	5018-	5205-	5271-	5630-	5621-	5595-	5085-5627	
ORISKANY	5545-5563	5031-	5221-	5287-	sandstone absent	5658-	5611-	5628-5646	
HELDERBERG									
TOTAL DEPTH	5570	5040	5232	5290	5709	5659	5621	5648	5025
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Tully
RESULT	143 MCF GAS from Oriskany, R.P. 1150 psi.	18,000 MCF GAS from Oriskany, R.P. 2200 psi.	20,000 MCF GAS from Oriskany, R.P. 2050 psi.	16,000 MCF GAS from Oriskany, R.P. 1850 psi.	No sandstone at Oriskany horizon	1,000 MCF GAS from Oriskany, R.P. 2125 psi.	S.W. in Oriskany	S.W. in Oriskany, very little sandstone in Oriskany formation	Abandoned above Oriskany

TABLE I, SHEET 52

POTTER COUNTY

QUADRANGLE	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee
MAP NUMBER	104	105	106	107	108	109	110	111	112
NAME OF WELL	Wm. Cobb 1	Wm. B. Hemphill 1	E. A. Coyle 1	E. A. Coyle 1	Frank Moe 1	Joseph Torok 1	J. J. Morley 1	J. J. Morley 1	M. F. Kidney 1
OPERATOR	N.Y. State Nat. Gas	G. L. Cabot Inc.	G. H. Rogers et al	C. E. Updegraff	North Branch Dev.	G. L. Cabot Inc.	G. L. Cabot Inc.	Williamsport Nat. Gas	G. L. Cabot Inc.
TOWNSHIP	Allegany	Hebron	Hebron	Hebron	Allegany	Ulysses	Ulysses	Ulysses	Ulysses
LATITUDE	2.06 mi. N. 41°50'	1.36 mi. N. 41°50'	1.42 mi. N. 41°50'	1.56 mi. N. 41°50'	1.91 mi. N. 41°50'	0.87 mi. N. 41°50'	1.18 mi. N. 41°50'	1.25 mi. N. 41°50'	0.74 mi. N. 41°50'
LONGITUDE	1.62 mi. W. 77°50'	0.32 mi. E. 78°00'	1.09 mi. E. 78°00'	1.56 mi. E. 78°00'	0.78 mi. W. 77°50'	0.20 mi. E. 77°50'	0.33 mi. E. 77°50'	0.42 mi. E. 77°50'	0.82 mi. E. 77°50'
DATE COMPLETED	5-1-40	11-19-41	7-11-33	5-22-34	9-9-33	1-29-40	8-15-40	4-19-40	1-29-40
ELEVATION	2268	2093	2173	2373	2405	2497	2402	2430	2390
TULLY	4939-4992	4787-4841	5265-5328	5160-5220	4665-4715	4563-4616	4481-4536	4496-4549	4457-4516
ONONDAGA	5589-5607	5393-5415	5858-587[illegible]		5297-5316	5202-5216	5129-5140	5136-5158	5104-5133
ORISKANY	5607-5618	5415-	5875-	5800-5820	5316-5326	5216-5231	5140-5157	5158-5171	5133-5150
HELDERBERG									
TOTAL DEPTH	5636	5433	5888	5878	5440	5238	5282	5171	5285
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	Dry in Oriskany	A little S.W. ½ bailer per hr. at 5416	Dry in Oriskany	Dry in Oriskany, no water	Dry, tight sand	556 MCF GAS from Oriskany, R.P. 2200 psi.	60 MCF GAS from Oriskany, increased very little on acidizing	880 MCF GAS from Oriskany at 5164, R.P. 1730 psi.	Show of Gas in Oriskany

POTTER COUNTY

QUADRANGLE	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee	Genesee
MAP NUMBER	113	114	115	116	117	118	119	120	121
NAME OF WELL	Coudersport Trust Co. 1	R.R. Lewis 1	L.L. Rennels 1	John Stone 4	John Stone 3	John Stone 1	John Stone 2	A.R. Mitchell 1	A.G. Lyman 1
OPERATOR	N.Y. State Nat. Gas	G.L. Cabot Inc.	G.L. Cabot Inc.	G.L. Cabot Inc.	G.L. Cabot Inc.	G.L. Cabot Inc.	G.L. Cabot Inc.	Evjen and Harris	G.L. Cabot Inc.
TOWNSHIP	Ulysses	Allegany	Ulysses	Ulysses	Ulysses	Ulysses	Ulysses	Sweden	Ulysses
LATITUDE	1.37 mi. N. 41°50'	0.38 mi. N. 41°50'	0.42 mi. N. 41°50'	0.30 mi. N. 41°50'	0.06 mi. N. 41°50'	0.47 mi. N. 41°50'	0.42 mi. N 41°50'	2.17 mi. S. 41°50'	0.09 mi. N. 41°45'
LONGITUDE	1.41 mi. E. 77°50'	1.33 mi. W. 77°50'	0.42 mi. W. 77°50	0.26 mi. E. 77°50'	0.58 mi. E. 77°50'	0.63 mi. E. 77°50'	0.96 mi. E. 77°50'	1.95 mi. W 77°55'	0.39 mi. E. 77°50'
DATE COMPLETED	12-22-39	9-13-35	11-22-40	3-6-40	3-8-40	10-8-39	1-15-40	8-12-39	1-21-36
ELEVATION	2246	2318	2411	2212	2231	2188	2315	2039	2304
TULLY	4296-	4383-4435	4456-4509	4321-4375	4785-4850	4334-4388	4691-4740	4774-4827	5470-5529
ONONDAGA	4946-	5029-5044	5098-5121	4965-4984		4977-4998		5395-	6167-6189
ORISKANY	4963-	5044-5060	5121-5140	4984-5010		4998-5010		sandstone absent	Oriskany horizon at 6189 sandstone absent
HELDERBERG									
TOTAL DEPTH	4986	5218	5152	5116		5026	5030	5501	6280
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Tully	Oriskany	Tully	Oriskany	Oriskany
RESULT	225 MCF GAS from Oriskany, R.P. 2170 psi.	Dry in Oriskany	Dry in Oriskany	Slight show of Gas in Oriskany at 4996	Abandoned above Oriskany	608 MCF GAS from Oriskany	Abandoned above Oriskany	No sandstone at Oriskany horizon	No sandstone at Oriskany horizon

POTTER COUNTY

QUADRANGLE	Gaines	Gaines	Gaines	Gaines	Gaines	Gaines	Gaines	Gaines	Gaines
MAP NUMBER	1	2	3	4	5	6	10	11	12
NAME OF WELL	Frank Raymond 1	D. McAllister 1	S. W. Berry 1	Howard White 1	S. W. Berry 2	B. E. Truax 1	G. M. Whitman 1	A. D. Marble 1	Ida Scoville 1
OPERATOR	G. L. Cabot Inc.	Potter Dev.	New Penn Dev.	N. Y. State Nat. Gas	Allegany Gas	N. Y. State Nat. Gas	North Branch Dev.	N. Y. State Nat. Gas	Potter Dev.
TOWNSHIP	Bingham	Harrison	Harrison	Harrison	Harrison	Harrison	Harrison	Harrison	Harrison
LATITUDE	0.63 mi. S. 42°00'	0.64 mi. S. 42°00'	0.44 mi. S. 42°00'	0.71 mi. S. 42°00'	0.28 mi. S. 42°00'	0.51 mi. S. 42°00'	1.77 mi. S. 42°00'	1.78 mi. S. 42°00'	1.24 mi. S. 42°00'
LONGITUDE	1.12 mi. E. 77°45'	0.85 mi. W. 77°40'	0.03 mi. E. 77°40'	0.07 mi. E. 77°40'	0.36 mi. E. 77°40'	1.07 mi. E. 77°40'	1.76 mi. E. 77°45'	1.76 mi. E. 77°45'	2.07 mi. E. 77°45'
DATE COMPLETED	11-18-38	5-30-35	8-29-40	12-8-40	1-9-43	1-13-39	12-11-37	12-29-37	9-24-37
ELEVATION	2313	2154	2228	2160	2159	1862	2133	2142	2261
TULLY	4633-4680	4375-4460	4444-4498	4398-4420	4386-4427	4071-4119	4371-	4389-4439	4552-4606
ONONDAGA	5295-5327	5071-	5115-5146	5037-5059	5057-5089	4747-4781		5031-5064	5206-5229
ORISKANY	5327-	5103-	5146-	5059-	5089-	4781-	5056-	5064-	5229-
HELDERBERG									
TOTAL DEPTH	5332	5115	5157	5079	5112	4793	5067	5075	5241
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	S.W in Oriskany at 5331, rose 300 ft.	6,800 MCF GAS from Oriskany, R.P. 2115 psi.	3,200 MCF GAS from Oriskany, R.P. 585 psi.	600 MCF GAS from Oriskany, first gas at 5064	200 MCF GAS from Oriskany at 5094-5112, R.P. 187 psi.	1000 MCF GAS from Oriskany, first gas at 4787	19,000 MCF GAS from Oriskany, R.P. 2070 psi.	8,200 MCF GAS from Oriskany	7,600 MCF GAS from Oriskany, R.P. 1495 psi.

POTTER COUNTY

QUADRANGLE	Gaines	Gaines	Gaines	Gaines	Gaines	Gaines	Gaines	Gaines	Gaines
MAP NUMBER	13	14	15	16	17	18	19	20	21
NAME OF WELL	Flora Rooks 1	L.C. English 1	R.E. Courtwright 1	Lena Barnes 1	Lena Barnes 2	Andrew Schofield 2	Andrew Schofield 1	L.E. Haynes 1	John Saxton 1
OPERATOR	Hanley and Bird	Potter Dev.	G.L. Cabot Inc.	Penn-York Nat. Gas	Penn-York Nat. Gas	N.Y. State Nat. Gas	Lycoming Nat. Gas	N.Y. State Nat. Gas	N.Y. State Nat. Gas
TOWNSHIP	Harrison	Harrison	Harrison	Harrison	Harrison	Harrison	Harrison	Harrison	Harrison
LATITUDE	1.95 mi. S. 42°00'	1.88 mi. S. 42°00'	1.38 mi. S. 42°00'	1.75 mi. S. 42°00'	1.52 mi. S. 42°00'	1.32 mi. S. 42°00'	1.61 mi. S. 42°00'	1.74 mi. S. 42°00'	1.50 mi. S. 42°00'
LONGITUDE	2.02 mi. W. 77°40'	1.53 mi. W. 77°40'	1.46 mi. W. 77°40'	1.42 mi. W. 77°40'	1.35 mi. W. 77°40'	1.28 mi. W. 77°40'	0.78 mi. W. 77°40'	0.25 mi. W. 77°40'	0.01 mi. W. 77°40'
DATE COMPLETED	6-17-38	4-16-37	4-17-37	9-24-36	2-23-39	12-31-37	6-15-34	9-14-38	2-11-37
ELEVATION	2089	2242	2086	2195	2078	2050	1923	1873	1969
TULLY	4296-	4407-4455	4266-4322	4357-4404	4249-	4247-4280	4054-4099	4005-	4100-4148
ONONDAGA	4963-	5070-5100	4970-5002	5015-5044	4906-	4933-4962	4719-	4668-	4764-
ORISKANY	4993-	5100-	5002-	5044-	4936-	4962-4976	4745-	4701-	4794-
HELDERBERG									
TOTAL DEPTH	5009	5110	5012	5052	4950	4976	4755	4718	4808
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	7,000 MCF GAS from Oriskany, R.P. 980 psi.	11,000 MCF GAS from Oriskany, R.P. 1870 psi.	12,000 MCF GAS from Oriskany, R.P. 1870 psi.	22,500 MCF GAS from Oriskany, R.P. 2075 psi.	4,000 MCF GAS from Oriskany, R.P. 420 psi.	7,300 MCF GAS from Oriskany, first gas at 4967 R.P. 1210 psi.	18,000 MCF GAS from Oriskany, R.P. 2140 psi.	10,500 MCF GAS from Oriskany, R.P. 945 psi.	20,500 MCF GAS from Oriskany, R.P. 1960 psi.

POTTER COUNTY

QUADRANGLE	Gaines	Gaines	Gaines	Gaines	Gaines	Gaines	Gaines	Gaines	Gaines
MAP NUMBER	22	23	24	26	27	28	29	30	31
NAME OF WELL	G. McCutcheon 1	I. Kibbe 1	Arthur Bean 1	F. Robbins 1	N. Courtwright 1	Flora Rooks 2	F. Plaested 1	Maude Reynolds 1	Leland Schofield 1
OPERATOR	Sylvania	Sylvania	G.L. Cabot Inc.	Potter Dev.	Penn-York Nat. Gas	Hanley and Bird	Penn-York Nat. Gas	Penn-York Nat. Gas	N.Y. State Nat. Gas
TOWNSHIP	Harrison	Harrison	Harrison	Bingham	Harrison	Harrison	Harrison	Harrison	Harrison
LATITUDE	1.06 mi. S 42°00'	1.11 mi. S. 42°00'	1.45 mi. S. 42°00'	2.13 mi. S. 42°00'	2.26 mi. S. 42°00'	2.01 mi. S. 42°00'	2.31 mi. S. 42°00'	2.84 mi. N. 41°55'	2.02 mi. S. 42°00'
LONGITUDE	0.98 mi. E. 77°40'	1.42 mi. E. 77°40'	2.04 mi. W. 77°35'	1.17 mi. E 77°45'	1.30 mi. E. 77°45'	1.96 mi. E. 77°45'	2.06 mi. E. 77°45'	2.13 mi. E. 77°45'	1.38 mi. W. 77°40'
DATE COMPLETED	7-24-36	4-5-37	9-10-37	9-26-35	9-17-36	12-2-38	11-6-36	9-13-37	8-6-37
ELEVATION	2153	2040	1709	2191	2176	2170	1953	2071	2229
TULLY	4303 - 4359	4221 - 4280	4140 - 4200	4481 - 4533	4335 - 4494	4421 - 4469	4168 - 4222	4241 - 4297	4398 - 4447
ONONDAGA	4971 -	4899 -	4848 - 4870	5124 -	5093 -	5078 - 5114	4824 -	4893 - 4928	5057 - 5085
ORISKANY	4998 - 5022	4925 - 4948	4870 -	5153 -	5119 -	5114 - 5129	4863 - 4895	4928 -	5085 -
HELDERBERG									
TOTAL DEPTH	5026	4958	4890	5168	5133	5129	4906	4946	5100
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	2,250 MCF GAS from Oriskany, shot 5001-5020 with 60 qts., R.P. 2110 psi.	700 MCF GAS from Oriskany	S.W. in Oriskany at 4890, 5 bailers per hr.	16,600 MCF GAS from Oriskany, R.P. 2115 psi.	29,000 MCF GAS from Oriskany, R.P. 2020 psi.	1300 MCF GAS from Oriskany, 1900 MCF after shot, R.P. 555 psi.	550 MCF GAS from Oriskany, 700 MCF after shot, R.P. 2050 psi.	2,400 MCF GAS after shot from Oriskany, R.P. 1500 psi.	13,800 MCF GAS from Oriskany, R.P. 1585 psi.

POTTER COUNTY

QUADRANGLE	Gaines	Gaines	Gaines	Gaines	Gaines	Gaines	Gaines	Emporium	Emporium
MAP NUMBER	32	33	34	35	36	52	54	1	2
NAME OF WELL	J. D. Morley 1	Emma M. Elliott 1	Chas Ashton 1	Earl Herrington 1	Bert Simmons 1	Geo. Doty 1	E. A. Williams 1	Crawford Estate 1	H. D. Robbins 1
OPERATOR	N Y State Nat Gas	G. L. Cabot Inc.	New Penn Dev.	Acme Drilling	United Nat. Gas	North Branch Dev.	North Branch Dev.	Potter Dev.	G. L. Cabot Inc.
TOWNSHIP	Bingham	Harrison	Harrison	Ulysses	Hector	Hector	Hector	Keating	Wharton
LATITUDE	2.46 mi. N. 41°55'	1.95 mi. N. 41°55'	0.87 mi. N. 41°55'	2.21 mi S. 41°55'	2.69 mi. N. 41°50'	1.12 mi. N. 41°50'	0.12 mi. N. 41°50'	0.57 mi. S. 41°40'	1.12 mi. N. 41°30'
LONGITUDE	1.15 mi E. 77°45'	1.65 mi. W. 77°40'	2.00 mi. E. 77°45'	0.42 mi. E. 77°45'	1.85 mi. W. 77°35'	1.73 mi. W. 77°35'	0.80 mi. W. 77°40'	1.54 mi. W. 78°10'	0.18 mi W. 78°00'
DATE COMPLETED	7-18-38	12-9-38	11-30-39	10-30-46	4-23-49	12-7-34	8-24-39	3-7-38	6-28-49
ELEVATION	2301	1820	2506	2300	2027	2111	2072	1933	1745
TULLY	4586-	4409-4450	5069-5112	4802-4852	4780-4835	4632-4729	4716-4767	4460-4509	5256-5327
ONONDAGA	5249-	5078-5104	5764-5794	5536-5563	not found	5492-	5437-5459	5015--	5937-5961
ORISKANY	5279-	5104-5133	5794-5825	sandstone absent	not found	5519-5530	sandstone absent	Oriskany horizon at 5064 sandstone absent	5961-
HELDERBERG							5459-5546		
SALINA								salt 5465-5497	
LOCKPORT									
ALBION — RED MEDINA (GRIMSBY)								8005-8065	
ALBION — WHITE MEDINA (WHIRLPOOL)								8065-8172	
QUEENSTON								8172	
TOTAL DEPTH	5325	5153	5857	5591	6001	5658	5609	8482	5983
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	?	Oriskany	Helderberg	Albion	Oriskany
RESULT	Dry in Oriskany, No S.W.	Dry in Oriskany	Dry in Oriskany	No sandstone at Oriskany horizon	Dry	Very little sandstone in Oriskany formation	No sandstone at Oriskany horizon	No sandstone at Oriskany horizon	1,745 MCF GAS from Oriskany R.P. 2450 psi

TABLE I, SHEET 58

POTTER COUNTY

QUADRANGLE	Emporium	Emporium	Short Run	Short Run	Short Run	Short Run	Short Run	Short Run	Short Run
MAP NUMBER	3	4	1	2	3	4	5	6	7
NAME OF WELL	Potter County Commissioners 1	Julia E. Miller Est. 1	L. Franke 1	Lyman and Wynkoop Lands 1	Nellie Harrington 1	Penna. State Lands 1	Emporium Lumber Co. 2	Emporium Lumber Co. 1	Emporium Lumber Co. 12
OPERATOR	R. L. Christman et al	G. L. Cabot Inc.	Bayless Nat. Gas	Sylvania	H. K. Dougherty et al	Allegany Gas et al	East Penn Dev	East Penn Dev.	Allegany Gas et al
TOWNSHIP	Wharton	Wharton	Eulalia	Ulysses	Summit	Abbott	East Fork	East Fork	East Fork
LATITUDE	0.34 mi. N. 41°30'	0.30 mi. N. 41°30'	0.91 mi. S. 41°45'	1.00 mi. S. 41°45'	1.05 mi. S. 41°40'	2.06 mi. N. 41°35'	2.07 mi. S. 41°35'	2.14 mi. S. 41°35'	1.98 mi. S. 41°35'
LONGITUDE	0.48 mi. W. 78°00'	0.20 mi. W. 78°00'	0.37 mi. E. 78°00'	.37 mi. W. 77°50'	2.07 mi. E. 78°00'	0.34 mi. E. 77°50'	0.08 mi. W. 77°55'	0.55 mi. E. 77°55'	1.08 mi. E. 77°55'
DATE COMPLETED	2-22-49	5-24-49	10-13-33	1-31-46	8-25-49	8-17-48	3-16-34	2-23-33	10-1-47
ELEVATION	1766	1996	2232	1947	1474	1941	1663	1934	1984
TULLY	5211 - 5281	5407 - 5484	5192 - 5245	4804 - 4856		5478 - 5528	5300 - 5365	5523 - 5588	5568 - 5636
ONONDAGA	5910 - 5932	6111 - 6126	5829 - 5865	5486 - 5518	5672 - 5728	6280 - 6316	6020 - 6040	6275 - 6284	6325 - 6330
ORISKANY	5932 -	6126 -	sandstone absent	Oriskany horizon at 5518 sandstone absent	Sandstone absent	6316 - 6331	6040 - 6057	6284 - 6322	6330 - 6379
HELDERBERG						6331 - 6410			
TOTAL DEPTH	5965	6144	5881	5685	5770	6463	6087	6437	6400
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Helderberg	Oriskany	Oriskany	Oriskany
RESULT	3,100 MCF GAS from Oriskany after shot	2431 MCF GAS from Oriskany R.P. 2250 psi.	No sandstone at Oriskany horizon	No sandstone at Oriskany horizon	Show of GAS 5728 No sandstone at Oriskany horizon	Dry in Oriskany	243 MCF GAS from Oriskany	50 MCF GAS from Oriskany at 6284-6291	16 MCF GAS from Oriskany after shot 4 bailers S.W. in 8 days

TABLE I, SHEET 59

POTTER COUNTY

QUADRANGLE	Short Run	Short Run	Short Run	Short Run	Short Run	Short Run	Short Run	Short Run	Short Run
MAP NUMBER	8	9	10	11	12	13	14	15	16
NAME OF WELL	Central Penna. Lumber Co. 1	Emporium Lumber Co. 9	Emporium Lumber Co. 10	Emporium Lumber Co. 11	Emporium Lumber Co. 13	State of Penna. 12	Emporium Lumber Co. 14	C.R Peters Unit 1	Central Penna. Lumber Co. 4
OPERATOR	G L. Cabot Inc.	Allegany Gas et al	Allegany Gas et al	Allegany Gas et al	Allegany Gas et al	G. L. Cabot Inc.	Allegany Gas et al	G L Cabot Inc.	G. L. Cabot Inc.
TOWNSHIP	Wharton	East Fork	East Fork	East Fork	East Fork	Wharton	Wharton	Wharton	Wharton
LATITUDE	2.52 mi. N. 41°30'	2.81 mi. S. 41°35'	2.56 mi. N. 41°30'	2.77 mi. N. 41°30'	2.69 mi. S. 41°35'	1.53 mi. N. 41°30'	1.44 mi. N. 41°30'	1.80 mi. N. 41°30'	2.22 mi. N. 41°30'
LONGITUDE	0.59 mi. W. 77°55'	0.21 mi. W. 77°55'	0.21 mi. W. 77°55'	0.09 mi. E. 77°55'	0.52 mi. E. 77°55'	0.94 mi. E. 78°00'	1.70 mi. W. 77°55'	1.58 mi. W. 77°55'	0.85 mi. W. 77°55'
DATE COMPLETED	12-2-40	7-13-46	2-18-47	11-3-47	3-24-48	2-2-49	7-9-48	11-20-47	5-7-42
ELEVATION	1990	2005	1915	1956	1867	1994	2119	1908	2001
TULLY	5583-5697	5576-5638	5445-5523	5497-5564	5410-5474	5546-5622	5686-5750	5484-5564	5580-5644
ONONDAGA	6300-6325	6324-6328	6186-6194	6225-6235	6139-6146	6235-6250	6406-6414	6204-6218	6297-6313
ORISKANY	6325-	6328-6348	6194-	6235-	6146-	6250-	6414-6432	6218-	6313-
HELDERBERG									
TOTAL DEPTH	6337	6375	6212	6263	6195	6287	6438	6230	6348
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	157 MCF GAS from Oriskany, R.P. 1325 psi.	115 MCF GAS from Oriskany, R.P. 1375 psi.	1,517 MCF GAS from Oriskany, after shot	300 MCF GAS from Oriskany	45 MCF GAS from Oriskany, after shot	1,900 MCF GAS from Oriskany, after shot	3,400 MCF GAS from Oriskany	412 MCF GAS from Oriskany after shot, R.P. 3300 psi. in 31 hrs.	728 MCF GAS from Oriskany after shot, R.P. 3200 psi.

POTTER COUNTY

QUADRANGLE	Short Run	Short Run	+ Short Run	* Short Run	Short Run	Short Run	+ Short Run	Short Run	Short Run
MAP NUMBER	17	18	19	20	21	22	23	24	25
NAME OF WELL	Central Penna. Lumber Co. 5	State of Penna. 9	State of Penna. 6	State of Penna. 2	State of Penna. 7	State of Penna. 10	State of Penna. 1	State of Penna. 8	State of Penna. 4
OPERATOR	G.L. Cabot Inc.	G.L. Cabot Inc.	G.L. Cabot Inc.	G.L. Cabot Inc.	G.L. Cabot Inc	G.L. Cabot Inc.	G.L. Cabot Inc.	G.L. Cabot Inc.	G.L. Cabot Inc.
TOWNSHIP	Wharton	Wharton	Wharton	Wharton	Wharton	Wharton	Wharton	Wharton	Wharton
LATITUDE	2.22 mi. N. 41°30'	0.80 mi. N. 41°30'	1.00 mi. N. 41°30'	0.82 mi. N. 41°30'	1.37 mi. N. 41°30'	0.91 mi. N. 41°30'	1.29 mi. N. 41°30'	0.30 mi. N. 41°30'	0.41 mi. N. 41°30'
LONGITUDE	0.36 mi. W. 77°55'	0.21 mi E. 78°00'	0.70 mi E. 78°00'	1.23 mi E. 78°00'	1.51 mi. E. 78°00'	1.75 mi. E. 78°00'	1.91 mi. W. 77°55'	0.17 mi. E. 78°00'	0.66 mi. E. 78°00'
DATE COMPLETED	12-12-47	11-25-48	6-19-48	3-30-48	9-3-48	2-10-49	1-23-48	10-28-48	9-16-48
ELEVATION	2016	1664	2115	2120	1808	2064	2098	1987	2104
TULLY	5590-5660	5091-5165	5562-5632	5566-5654	5338-5410	5570-5654	5662-5713	5387-5459	5515-5600
ONONDAGA	6378-6385	5801-5817	6248-6269	6283-6302	6046-6056	6277-6286	6329-6340	6085-6102	6215-6225
ORISKANY	6385-6417	5817-	6269-	6302-	6056-	6286-	6340-	6102-	6225-
HELDERBERG									
TOTAL DEPTH	6439	5841	6283	6314	6081	6302	6354	6115	6232
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	Dry in Oriskany slight show of S.W.	2,935 MCF GAS from Oriskany R.P. 3150 psi. in 42 hrs.	4,685 MCF GAS from Oriskany, R.P. 3500 psi. in 10 hrs.	7,400 MCF GAS from Oriskany, R.P. 3500 psi. in 8 hrs.	2,115 MCF GAS from Oriskany, R.P. 3400 psi. in 14 hrs.	1,137 MCF GAS from Oriskany, R.P. 2800 psi.	4,700 MCF GAS from Oriskany, R.P. 3600 psi. in 18 hrs.	9,400 MCF GAS from Oriskany	600 MCF GAS from Oriskany

POTTER COUNTY

QUADRANGLE	Coleton	Coleton	Driftwood	Driftwood	Driftwood	Driftwood	Driftwood	Emporium	Short Run
MAP NUMBER	3	4	1	2	3	4	5	5	[illegible]
NAME OF WELL	Johnstill 1	May Haupt 1	State of Penna 11	Kathryn M Page 2	Kathryn M Page 1	State of Penna 14	State of Penna 17	Potter County Commissioners 2	Lyman 1
OPERATOR	New Pennsylvania Dev	Potter Dev	G.L. Cabot Inc	G.L. Cabot Inc	G.L. Cabot Inc.	G.L. Cabot Inc	G.L. Cabot Inc	R.L. Christman, et al.	R.L. Christman, et al
TOWNSHIP	West Branch	West Branch	Wharton	Wharton	Wharton	Wharton	Wharton	Wharton	Wharton
LATITUDE	1.01 mi N 41°40'	65 mi N 41°40'	11 mi S 41°30'	41°30'	16 mi S 41°30'	51 mi S 41°30'	98 mi S 41°30'	.05 mi N 41°30'	52 mi N 41°30'
LONGITUDE	02 mi W 77°40'	1.78 mi E 77°40'	.36 mi W 78°00'	1.40 mi W. 78°00'	.81 mi W. 78°00'	.59 mi. W. 78°00'	.59 mi W 78°00'	.49 mi W. 78°00'	.82 mi E 78°00'
DATE COMPLETED	6-15-38	3-31-38	4-29-49		7-11-49	9-29-49		8-9-49	
ELEVATION	2158	1842	1920		1889	1972	1849	1795	
TULLY	5465-5530	4754-4810	5322-5395		5344-5416	5406-5487		5203-	
ONONDAGA	6289-	5598-	6022-6041		6046-6066	6102-6123		5935-	
ORISKANY	Sandstone absent	5617-5625	6041-		6066-	6123-		5954-	
HELDERBERG									
TOTAL DEPTH	6454	5700	6056		6086	6157		5974	
DEEPEST FORMATION TESTED		Oriskany	Oriskany		Oriskany	Oriskany		Oriskany	
RESULT	No sandstone at Oriskany horizon	Show of GAS 7 MCF in Oriskany R.P. 1450 psi	8,370 M.C.F. GAS from Oriskany R.P. 2425 psi		1,089 M.C.F. GAS from Oriskany	810 M.C.F. GAS from Oriskany R.P. 2000 psi		1,600 M.C.F. GAS before shot 3200 M.C.F. GAS after shot R.P. 2120 psi	

TABLE I, SHEET 62

POTTER COUNTY

QUADRANGLE	Short Run	Short Run	Short Run	Bitumen					
MAP NUMBER	27	28	29	1					
NAME OF WELL	State of Penna 13	State of Penna 5	State of Penna 16	State of Penna 15					
OPERATOR	G. Cabot Inc	G L Cabot Inc	G L Cabot Inc	G L Cabot Inc					
TOWNSHIP	Wharton	Wharton	Wharton	Wharton					
LATITUDE	35 mi N 41°30'	2.33 mi N 41°30'	1.53 mi N 41°30'	10 mi S 41°30'					
LONGITUDE	1.04 mi E 78°00	1.39 mi E 78°00'	1.89 mi E 78°00	46 mi E 78°00'					
DATE COMPLETED	6-13-49	1-10-50	10-26-49	11-4-49					
ELEVATION	2045	1511	1604	1914					
TULLY	5456-5530	5171-5241	5159-5228	5328-5402					
ONONDAGA	6142-6156	5890-5898	5853-5862	6016-6028					
ORISKANY	6156-	5898-5932 Show of GAS 5910 2 bailers SW in 10 hrs. at 5915	5862-	6028-					
HELDERBERG									
TOTAL DEPTH	6174	5938	5886	6051					
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany					
RESULT	4414 MCF GAS from Oriskany RP 2125 psi	Show of GAS at 5910 2 bailers SW in 10 hrs at 5915 in Oriskany	1,646 MCF GAS from Oriskany RP 2080 psi	22,000 MCF GAS from Oriskany RP 1650 psi					

SOMERSET COUNTY

QUADRANGLE	+ Windber								
MAP NUMBER	1								
NAME OF WELL	R.F. Grove 1								
OPERATOR	Peoples Natural Gas								
TOWNSHIP	Shade								
LATITUDE	.05 mi. N 40°05'								
LONGITUDE	.95 mi E 78°55'								
DATE COMPLETED	2-24-49								
ELEVATION	2343								
MURRYSVILLE									
TULLY	7860-7865								
ONONDAGA	8950-9124 Top chert 8965								
ORISKANY	9124-9297 Small show of Salt water at 9225								
HELDERBERG	9297- Small show of GAS at 9323								
TOTAL DEPTH	9369								
DEEPEST FORMATION TESTED	Oriskany								
RESULT	Dry in Onondaga and Oriskany Show of salt water at 9225 in Oriskany Show of GAS at 9323 in Helderberg								

TIOGA COUNTY

QUADRANGLE	Gaines	Gaines	Gaines	Gaines	Gaines	Gaines	Gaines	Gaines	Gaines
MAP NUMBER	7	8	9	25	37	38	39	40	41
NAME OF WELL	Union Stock Bank 1	W A Simmons 1	F B Joy 1	Jas. C. Bertch 1	Francis Johnson 1	Otto Burnside 1	C D Ackley 1	Hattie Decker et al 1	L J. Roberts 1
OPERATOR	G.L. Cabot, Inc.	N.Y. State Nat. Gas	G L Cabot, Inc	Hope Eng	North Branch Dev.	N.Y. State Nat. Gas	North Branch Dev.	G L. Cabot, Inc.	N.Y. State Nat Gas
TOWNSHIP	Brookfield	Brookfield	Brookfield	Brookfield	Clymer	Clymer	Clymer	Westfield	Clymer
LATITUDE	0.14 mi. S 42°00′	0.11 mi S 42°00′	0.08 mi S 42°00′	1.42 mi S. 42°00′	2.77 mi S 41°55′	2.81 mi. N. 41°50′	2.70 mi. S. 41°55′	2.23 mi S. 41°55′	1.82 mi N. 41°50′
LONGITUDE	1.13 mi. W. 77°35′	0.02 mi. E. 77°35′	0.29 mi. E. 77°35′	0.20 mi W. 77°35′	0.89 mi. W. 77°30′	0.66 mi. W. 77°30′	0.38 mi. W. 77°30′	0.07 mi W 77°30′	1.50 mi E. 77°35′
DATE COMPLETED	6-11-37	5-16-38	10-21-38		4-9-36	7-17-36	7-1-38	3-27-36	7-2-37
ELEVATION	2181	2145	2059	1840	1655	1810	1848	1830	1917
TULLY	4464-4509	4351-4398	4267-4315		3563-3615	3589-3642	3686-3741	3803-	3796-3849
ONONDAGA	5152-5185	5081-5112	4991-5026	4840-	4330-	4355-	4462-4475	4569-	4563-
ORISKANY	5185-	5112-5138	5026-5048	4864-	4348-	4370-	4475-4502	4590-	4576-
HELDERBERG									
TOTAL DEPTH	5195	5140	5049	4921	4358	4378	4505	4604	4586
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	S.W. in Oriskany at 5192	2,000 MCF GAS from Oriskany, R.P. 2090 psi.	55 MCF GAS from Oriskany at 5026	Dry in Oriskany no S.W.	12,000 MCF GAS from Oriskany R.P. 2060 psi.	17,000 MCF GAS from Oriskany R.P. 2005 psi.	2,700 MCF GAS from Oriskany R.P. 593 psi.	13,500 MCF GAS from Oriskany R.P. 2060 psi.	3,000 MCF GAS from Oriskany R.P. 1300 psi.

TIOGA COUNTY

QUADRANGLE	Gaines	Gaines	Gaines	Gaines	Gaines	Gaines	Gaines	Gaines	Gaines
MAP NUMBER	42	43	44	45	46	47	48	49	50
NAME OF WELL	Ray French 1	J L Trimmer 1	Andrew Stahle 1	J L Latimer 1	A Karhan 1	Ellis Williamson 1	Geo H Gee 1	Geo Stebbins 1	Oscar Owens 1
OPERATOR	East Penn Dev.	North Branch Dev.	N.Y. State Nat. Gas	G.L. Cabot, Inc.	Potter Dev.	Penn-United Gas	Shoop et al.	Potter Dev.	North Branch Dev
TOWNSHIP	Clymer	Clymer	Clymer	Clymer	Clymer	Clymer	Clymer	Clymer	Clymer
LATITUDE	2.20 mi N 41°50'	2.37 mi. N. 41°50'	2.53 mi. N. 41°50'	2.28 mi. N. 41°50'	2.44 mi N 41°50'	2.36 mi. N. 41°50'	2.40 mi N 41°50'	2.45 mi N 41°50	2.54 mi. N 41°50
LONGITUDE	2.07 mi E 77°35'	2.13 mi. E 77°35'	1.67 mi W 77°30'	1.63 mi. W. 77°30'	1.45 mi W 77°30'	1.38 mi. W 77°30'	1.27 mi W 77°30'	1.08 mi. W. 77°30'	1.01 mi W 77°30'
DATE COMPLETED	8-22-35	2-28-36	11-21-35	7-30-36	4-10-36	9-25-36	8-26-36	6-15-36	11-6-36
ELEVATION	1941	1820	1790	1649	1653	1633	1647	1653	1632
TULLY	3820-3875	3750-3806	3662-	3411-3467	3440-3493	3380-3435	3395-3450	3392-3440	3397-3451
ONONDAGA	4587-	4518-	4419-	4170-	4202-	4138-	4152-	4140-4160	4165-
ORISKANY	4598-	4539-	4442-	4184-	4209-	4153-	4168-	4160-	4182-
HELDERBERG									
TOTAL DEPTH	4628	4549	4449	4207	4213	4159	4178	4170	4194
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	5,900 MCF GAS from Oriskany, R.P. 2125 psi.	10,500 MCF GAS from Oriskany, R.P. 2030 psi.	14,000 MCF GAS from Oriskany, R.P. 2130 psi.	5,250 MCF GAS from Oriskany, R.P. 1790 psi.	20,500 MCF GAS from Oriskany, R.P. 2054 psi.	10,000 MCF GAS from Oriskany, R.P. 1925 psi.	9,000 MCF GAS from Oriskany	43,000 MCF GAS from Oriskany, R.P. 2020 psi.	23,000 MCF GAS from Oriskany, R.P. 1900 psi.

TABLE I, SHEET 66

TIOGA COUNTY

QUADRANGLE	Gaines	Gaines	Gaines	Elkland	Elkland	Elkland	Elkland	Elkland	Elkland
MAP NUMBER	51	53	55	1	2	3	4	5	6
NAME OF WELL	F.A. Ackley 1	Wallace Ackley 1	W.E. Burroughs 1	H.Z. Frisbie 1	Burr Van Duzen 1	Edith Price 1	Bertha House 1	Mrs. R Van Duzen 1	Dollie Place 1
OPERATOR	Lycoming Nat. Gas	Allegany Gas	G.L. Cabot Inc.	Elkland Oil and Gas	Elkland Oil and Gas	Penn-Ohio Gas	North Branch Dev.	Elkland Oil and Gas	Penn-Ohio Gas
TOWNSHIP	Clymer	Clymer	Gaines	Elkland	Farmington	Farmington	Farmington	Farmington	Farmington
LATITUDE	2.59 mi. N. 41°50'	1.54 mi. N. 41°50'	2.13 mi. S. 41°50'	1.71 mi. S. 42°00'	1.37 mi. N. 41°55'	1.18 mi. N. 41°55'	0.37 mi. N 41°55'	0.45 mi. N 41°55	0.15 mi. S 41°55'
LONGITUDE	0.39 mi. W 77°30'	0.90 mi. W 77°30'	0.69 mi. W 77°30'	1.79 mi. E 77°20'	0.33 mi. E 77°20'	1.10 mi. W 77°15'	1.03 mi. E 77°20'	1.55 mi. E 77°20'	2.13 mi. W 77°15'
DATE COMPLETED	12-10-30	11-15-41	5-7-35	9-3-31	9-3-31		9-8-31	5-1-33	7-31
ELEVATION	1934	1828	2191	1436	1814	1676	1777	1656	1849
TULLY	3692-3745	4653-4715	6090-6160	4085-	4041-4112	3355-	3720-3790	3550-3620	3310-3380
ONONDAGA	5008-5018	5463-5486	6912-6930			4252-	4693-	4400-4418	4245-
ORISKANY	5018-5059	5486-5502	6930-6960			4276-	4715-	4418-	4272-
HELDERBERG									
TOTAL DEPTH	5083	5544	6965	4200	4585	4285		4440	4281
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Tully	Tully	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	Show of GAS in Oriskany at 5026, no S.W.	Dry in Oriskany	S.W. in Oriskany, 1 bailer per day	Abandoned above Oriskany	Abandoned above Oriskany	S.W. in Oriskany at 4283, rose 200 ft. in 2 hrs.	Dry in Oriskany, no S.W.	S.W. in Oriskany at 4422	4,800 MCF GAS from Oriskany, R.P. 1625 psi.

TIOGA COUNTY

QUADRANGLE	Elkland	Elkland	Elkland	Elkland	Elkland	Elkland	Elkland	Elkland	Elkland
MAP NUMBER	7	8	9	10	11	12	13	14	15
NAME OF WELL	Leander Gee 1	Myron Finch 1	Chas. Hoyt 2	Ida Russell 2	E. J. Hall 1	Ida Russell 1	Chet Ashton 1	C.E. McCullum 1	L.R. Manning 1
OPERATOR	Penn-United Gas	Lycoming Nat. Gas	Lycoming Nat. Gas	Penn-United Gas	East Penn Dev.	Penn-United Gas	Lycoming Nat. Gas	Workman etal	East Penn Dev.
TOWNSHIP	Farmington	Farmington	Farmington	Farmington	Farmington	Farmington	Farmington	Farmington	Farmington
LATITUDE	0.04 mi. N. 41°55'	0.13 mi. N. 41°55'	0.06 mi. N. 41°55'	0.29 mi. N. 41°55'	0.07 mi. S. 41°55'	0.13 mi. N. 41°55'	0.20 mi. N. 41°55'	0.80 mi. N. 41°55'	0.16 mi. N. 41°55'
LONGITUDE	2.08 mi. W. 77°15'	1.91 mi. W. 77°15'	1.91 mi. W. 77°15'	1.60 mi. W. 77°15'	1.58 mi. W. 77°15'	1.49 mi. W 77°15'	1.40 mi. W 77°15'	1.45 mi. W. 77°15'	1.22 mi. W. 77°15'
DATE COMPLETED	11-3-31	8-19-32	11-15-31	4-27-32	1-13-32	9-30-31	5-19-31	2-4-32	6-25-31
ELEVATION	1812	1792	1730	1696	1763	1646	1625	1559	1785
TULLY	3320-3380	3314-3385	3190-3267	3152-3222	3180-3250	3081-3140	3045-3117	3153-3213	3195-3270
ONONDAGA	4235-	4206-	4099-	4071-	4100-	3962-	3949-	4078-	4075-
ORISKANY	4254-	4223-	4121-	4102-	4129-	3984-	3970-	4103-	4098-
HELDERBERG									
TOTAL DEPTH	4274	4237	4132	4156	4142	4011	3977	4110	4103
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	4,250 MCF GAS from Oriskany	7,000 MCF GAS from Oriskany	7,250 MCF GAS from Oriskany, R.P. 1650 psi.	8,000 MCF GAS from Oriskany, R.P. 1435 psi.	8,309 MCF GAS from Oriskany, R.P. 1575 psi.	10,000 MCF GAS from Oriskany, R.P. 1565 psi.	10,000 MCF GAS from Oriskany, R.P. 1675 psi.	S.W. in Oriskany, 4109-4110	15,000 MCF GAS from Oriskany R.P. 1655 psi.

TIOGA COUNTY

QUADRANGLE	Elkland	+ Elkland	Elkland	Elkland	Elkland	Elkland	Elkland	Elkland	Elkland
MAP NUMBER	16	17	18	19	20	21	22	23	24
NAME OF WELL	E W Close 2	Chas Hoyt 1	E W Close 1	Claude Learn 1	J.A. Leslie 1	Geo. Colegrove 1	Floyd Hunter 1	N.E. French 1	Geo. Stevens 1
OPERATOR	Lycoming Nat. Gas	Lycoming Nat. Gas	Penn-Ohio Gas	East Penn Dev.	East Penn Dev.	Allegany Gas	Allegany Gas and Hanley and Bird	G.K. Rodgers et al	Penn-United Gas
TOWNSHIP	Farmington	Farmington	Farmington	Farmington	Farmington	Farmington	Deerfield	Middlebury	Farmington
LATITUDE	0.41 mi. N. 41°55'	0.64 mi. N 41°55'	0.14 mi N 41°55'	0.31 mi. N. 41°55'	0.37 mi N 41°55'	0.07 mi. S. 41°55'	0.67 mi. S. 41°55'	1.09 mi. S. 41°55'	0.47 mi S. 41°55'
LONGITUDE	1.03 mi. W 77°15'	1.02 mi W 77°15'	0.95 mi W. 77°15'	0.76 mi. W. 77°15'	0.41 mi W. 77°15'	0.03 mi. W. 77°15'	0.37 mi W. 77°25'	0.96 mi E 77°20'	1.71 mi. E. 77°20'
DATE COMPLETED	5-21-31	5 15-31	2-21-31	5-25-31	9-3-31	5-14-40	7-12-43	6-8-33	1-24-34
ELEVATION	1748	1680	1755	1837	1878	1713	1750	1953	1848
TULLY	3100-3175	3100-3176	3070-3160	3132-3200	3150-3220	4200-4264	4202-4257	3659-3730	3401-
ONONDAGA	4005-	4011-	3993-4005	4040-4061	4040-	5140-5172	5027-5033	4547-4577	4289-
ORISKANY	4030-	4030-	4017-	4061-	4085-	5172-5214	5033-5046	4577-	4305-
HELDERBERG									
TOTAL DEPTH	4036	4037	4022	4069	4088	5218	5102	4592	4320
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	13,000 MCF GAS from Oriskany at 4030-4035, R.P. 1625 psi.	13,131 MCF GAS from Oriskany, R.P. 1650 psi.	22,000 MCF GAS from Oriskany, R.P. 1625 psi.	22,000 MCF GAS from Oriskany, R.P. 1655 psi.	40,000 MCF GAS from Oriskany, R.P. 1655 psi.	Show of GAS in Oriskany at 5190	Dry in Oriskany, Oriskany calcareous	S.W. in Oriskany, rose 2500 ft. in 24 hrs. very slight show of GAS	2,000 MCF GAS from Oriskany, R.P. 800 psi.

TIOGA COUNTY

QUADRANGLE	Elkland	Elkland	Elkland	Elkland	Elkland	Elkland	Elkland	Elkland	Elkland
MAP NUMBER	25	26	27	28	29	30	31	32	33
NAME OF WELL	Wm. Bache 1	Allen T. Pride 1	C.A. Davis 1	C.G. Dearman 1	Geo. Cummings 1	Otto Burnside 2	A.W. Leonard 1	D.F. Tremaine 1	Leander Gee 1
OPERATOR	Wm. Boche Syndicate	G.L. Cabot Inc.	Penn - United Gas	Potter Dev.	Vaughn-Rose	N.Y. State Nat. Gas	N.Y. State Nat. Gas	N.Y. State Nat. Gas	Shaler Oil
TOWNSHIP	Farmington	Westfield	Chatham	Middlebury	Middlebury	Clymer	Westfield	Chatham	Middlebury
LATITUDE	0.68 mi. S. 41°55′	1.34 mi. S. 41°55′	2.07 mi. S. 41°55′	1.44 mi. S. 41°55′	1.30 mi. S 41°55′	2.53 mi. S. 41°55′	2.32 mi. S 41°55′	2.57 mi. S 41°55′	2.29 mi. N. 41°50′
LONGITUDE	0.27 mi. W. 77°15′	0.20 mi. E. 77°30′	1.10 mi. E. 77°25′	0.71 mi. W. 77°20′	1.24 mi. W. 77°15′	0.01 mi. E. 77°30′	0.77 mi. E. 77°30′	1.90 mi. E. 77°30′	1.72 mi. E. 77°20′
DATE COMPLETED	7-29-31	9-3-37		4-23-37	9-12-31	1-21-37	10-15-37	4-10-40	1-28-32
ELEVATION	1634	1847	1707	1692	1756	1818	1866	1683	1514
TULLY	3948-4011	4184-4246	3812-	3535-3610	4045-4065	3646-3699	3784-3838	4423-4488	4612-
ONONDAGA	4881-4887	4960-4968	4647-	4385-4415		4419-4437	4564-4582	5242-5253	
ORISKANY	4887-4935	4968-4980	4672-	4415-		4437-	4582-4585	5253-5274	
HELDERBERG									
TOTAL DEPTH	4956	4981	4723	4418	4140	4479	4593	5296	5300
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Tully	Oriskany	Oriskany	Oriskany	Tully
RESULT	Dry in Oriskany, no S.W.	1,500 MCF GAS from Oriskany, R.P. 1105 psi.	Dry in Oriskany, no S.W.	12 MCF GAS from Oriskany, S.W. at 4417	Abandoned above Oriskany	27,000 MCF GAS from Oriskany, R.P. 1780 psi.	4,800 MCF GAS from Oriskany, R.P. 1025 psi.	Dry in Oriskany	Abandoned above Oriskany

TABLE I, SHEET 70

TIOGA COUNTY

QUADRANGLE	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga
MAP NUMBER	1	2	3	4	5	6	7	8	9
NAME OF WELL	Ryan Sisters 1	W. J. Ryder 1	L.E. Shoemaker 1	C.W. Greenwalt 1	T.V. Turnbull 1	Leo Gee 1	H.A. Croft 1	Fred Preston 1	Geo. Barcroft 1
OPERATOR	Morgan-Hague	Brad-Lawrence	Lycoming Nat Gas	N.Y. State N.G. and Allegany Gas	Allegany Gas	Allen Reed Jr.	Newton Consolidated Utilities	York - Penn	North Branch Dev.
TOWNSHIP	Lawrence	Lawrence	Lawrence	Jackson	Jackson	Lawrence	Lawrence	Lawrence	Lawrence
LATITUDE	0.60 mi. S. 42°00'	1.55 mi. S 42°00'	1.77 mi. S 42°00'	1.71 mi. S. 42°00'	1.27 mi. S 42°00'	2.88 mi. S. 42°00'	2.40 mi. S. 42°00'	2.55 mi. S. 42°00'	2.86 mi. N. 41°55'
LONGITUDE	1.80 mi. E 77°10	2.09 mi. E 77°10'	1.00 mi. E. 77°05'	1.84 mi. W. 77°00'	1.23 mi. W. 77°00'	1.61 mi. W 77°10'	1.42 mi. W 77°10'	0.45 mi. W. 77°10'	0.42 mi. E 77°10'
DATE COMPLETED		11-19-31	1931	5-14-48	10-14-47	2-18-32	3-5-32	2-15-33	10-1-31
ELEVATION	1056	1.224	1474	1828	1807	1286	1226	1510	1609
TULLY	3314-3364	2982-	2909-2991	3328-3396	3368-3432	2992-	3130-3188	3235-3300	2970-3035
ONONDAGA	4230-		3913-3930	4335-4368	4397-4429	3911-	4065-	4190-	3919-
ORISKANY	4252-	4005-	3930-3980	4368-	4429-4468	3942-	4102-	4213-	3944-
HELDERBERG			3980-4097						
SALINA			4261- Syracuse Salt member 4424-6508						
TOTAL DEPTH	4298	4068	7148	4502	4487	3954	4138	4220	3982
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Salina	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	Dry in Oriskany, no S.W.	Dry in Oriskany, no S.W.	Dry in Oriskany, no S.W.	Small show of GAS in Oriskany, and a little S.W.	Show of GAS in Oriskany at 4434, 15 gal. S.W. per hr. at 1437	S.W. in Oriskany	Dry in Oriskany no S.W.	S.W in Oriskany	6,000 MCF GAS from Oriskany, R.P. 1580 psi.

TIOGA COUNTY

QUADRANGLE	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga
MAP NUMBER	10	11	12	13	14	15	16	17	18
NAME OF WELL	Durfee Heirs 1	C.H. Van Zile 3	Fred Fletcher 1	Horace Cloos 1	N.Y. State Nat. Gas Corp. 1	W.W. Colegrove 1	W.W. Colegrove 1B	G. Burdette 1	Cath. Harrison 1
OPERATOR	Workman etal	N.Y. State Nat. Gas	Penn-United Gas	Tioga Nat Gas	N.Y. State Nat Gas	North Branch Dev.	North Branch Dev.	Gable etal	Leonard Drilling
TOWNSHIP	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence
LATITUDE	2.47mi. S. 42°00'	2.78mi. S. 42°00'	2.74mi. S. 42°00'	2.42mi. S. 42°00'	2.88mi. S 42°00'	2.71mi. S. 42°00'	2.75mi. S. 42°00'	2.67mi. S. 42°00'	2.01mi. S. 42°00'
LONGITUDE	0.97mi. E. 77°10'	1.05mi. E. 77°10'	1.67mi. E. 77°10'	1.72mi. E. 77°10'	1.85mi. E. 77°10'	1.87mi. E. 77°10'	2.23mi. W. 77°05'	1.73mi. W. 77°05'	1.15mi. W 77°05'
DATE COMPLETED	10-29-31	4-27-48	5-2-32	12-20-32	8-10-49	11-28-31	5-4-32	7-14-32	4-4-31
ELEVATION	1439	1438	1723	1590	1460	1610	1395	1000	1049
TULLY	3001-3073	2812-2878	3025-3095	3100-3180	2763-2830	2910-2975	2695-2762	2325-2393	2470-2550
ONONDAGA	3954-	3777-3806	4023-	4108-	3735-	3928-	3651-	3285-	3459-
ORISKANY	3980-4017	3806-3843	4047-	4140-	3754-	3949-	3674-	3305-	3481-
HELDERBERG									
TOTAL DEPTH	4019	3844	4061	4158	3800	4004	3696	3347	3750
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	Show of GAS in Oriskany no S.W.	Oriskany ss, tight	3,000 MCF GAS from Oriskany	8,500 MCF GAS from Oriskany after shot	Drilled for gas storage	2,500 MCF GAS from Oriskany, R.P. 1600 psi.	2,500 MCF GAS from Oriskany R.P. 1565 psi.	500 MCF GAS from Oriskany	Show of GAS in Oriskany, no S.W.

TABLE I, SHEET 72

TIOGA COUNTY

QUADRANGLE	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga
MAP NUMBER	19	20	21	22	23	24	25	26	27
NAME OF WELL	C Wainwright 1	Linus Wilston 1	Roscoe Kemp 1	Charles Thomas 2	Wm. Bostwick 1	Clive S. Burtch 1	Dean Colegrove 2	Wilston-Kuhl 1	Dean Colegrove 1
OPERATOR	Penn-United Gas	Penn-United Gas	East Penn Dev.	N.Y. State Nat. Gas	J.E. Trainer et al	N.Y. State Nat Gas	N.Y. State Nat. Gas	North Branch Dev.	N.Y. State Nat Gas
TOWNSHIP	Lawrence	Farmington	Farmington	Farmington	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence
LATITUDE	2.34 mi. S. 42°00'	1.89 mi. N. 41°55'	1.86 mi N 41°55'	1.90 mi. N. 41°55'	2.75 mi. N. 41°55'	1.80 mi. N. 41°55'	2.12 mi. N. 41°55'	2.52 mi. N 41°55'	2.04 mi. N. 41°55'
LONGITUDE	0.39 mi. W. 77°05'	0.68 mi. E. 77°15'	1.15 mi. E. 77°15'	1.46 mi. E. 77°15'	1.75 mi. E 77°15	1.81 mi. E 77°15'	1.96 mi. E 77°15'	2.03 mi. W. 77°10'	2.28 mi. E 77°15'
DATE COMPLETED	9-13-35	1-31-32	11-24-34	12-26-47		9-12-45	9-5-47	9-5-31	10-30-44
ELEVATION	1399	1606	1663	1628	1509	1661	1681	1573	1680
TULLY	2721-2780	3100-3175	3075-3140	3010-	3252-3315	2988-3063	3084-3155	3075-3130	3004-3069
ONONDAGA	3703-	4027-	3970-	3930-3965	4180-	3906-	4010-4046	4000-4037	3921-3945
ORISKANY	3727-3781	4051-	3996-	3965-	4191-	3942-	4046-	4037-	3945-
HELDERBERG									
TOTAL DEPTH	3803	4072	4027	3998	4197	3957	4070	4040	3969
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	330 MCF GAS from Oriskany, R.P. 800 psi.	3,500 MCF GAS from Oriskany, R.P. 1570 psi.	2,200 MCF GAS from Oriskany	Drilled for Gas storage	S.W. in Oriskany at 4196, rose 2200 ft.	Drilled for Gas storage	Drilled for Gas storage	13,500 MCF GAS from Oriskany, R.P. 1575 psi.	Drilled for Gas storage

TIOGA COUNTY

QUADRANGLE	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga
MAP NUMBER	28	29	30	31	32	33	34	35	36
NAME OF WELL	R.R. Murray 1	T.T. Colegrove 1	Geo. Colegrove 2	Dana Learn 1	Geo. Colegrove 1	R.R. Murray 2	Farr-Colegrove 1	C.A. Smith 1	Farr-Colegrove 2
OPERATOR	North Branch Dev.	East Penn Dev.	N.Y. State Nat. Gas	Mutual Nat. Gas	N.Y. State Nat. Gas	Mutual Nat. Gas	Benedum-Trees	East Penn Dev.	Benedum-Trees
TOWNSHIP	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence
LATITUDE	2.54 mi. N. 41°55′	2.37 mi. N. 41°55′	2.16 mi. N. 41°55′	2.60 mi. N. 41°55′	2.27 mi. N. 41°55′	2.64 mi. N. 41°55′	2.10 mi. N. 41°55′	1.91 mi. N. 41°55′	2.11 mi. N. 41°55′
LONGITUDE	2.55 mi. E. 77°15′	1.76 mi. W. 77°10′	1.76 mi. W. 77°10′	1.56 mi. W. 77°10′	1.42 mi. W. 77°10′	1.40 mi. W. 77°10′	1.26 mi. W. 77°10′	1.15 mi. W. 77°10′	1.04 mi. W. 77°10′
DATE COMPLETED	6-2-32	5-8-34	5-23-47	2-9-32	1-11-47	2-23-33	2-14-31	8-5-31	
ELEVATION	1739	1671	1612	1649	1386	1291	1367	1470	1687
TULLY	3225-3290	3102-3174	2952-3027	3145-3218	2732-2793	2796-2866	2690-2760	3460-3535	3070-3125
ONONDAGA	4168-	4023-4057	3870-3901	4067-	3659-3687	3727-	3740-	4558-	4171-
ORISKANY	4205-	4057-	3901-	4095-	3687-	3757-	3773-	4580-4613	4192-
HELDERBERG									
TOTAL DEPTH	4223	4073	3931	4109	3702	3769	3782	4692	4205
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	16,000 MCF GAS from Oriskany	4600 MCF GAS from Oriskany	Drilled for Gas storage	11,776 MCF GAS from Oriskany, R.P. 1600 psi.	Drilled for Gas storage	3,360 MCF GAS from Oriskany, R.P. 1460 psi.	10,000 MCF GAS from Oriskany, R.P. 1675 psi.	Dry in Oriskany, no S.W.	Show of GAS in Oriskany at 4194, S.W. in Oriskany rose 3400 ft.

TABLE I, SHEET 74

TIOGA COUNTY

QUADRANGLE	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga
MAP NUMBER	37	38	39	40	41	42	43	44	45
NAME OF WELL	Farr-Mather et al 4	Farr-Colegrove 3	Jesse Smith 1	Clarence Cooley 2	Adrian West 1	Clarence Cooley 1	J.H. Decker 1	Geo Boom 2	Elliot Heirs 1
OPERATOR	N.Y. State Nat. Gas	Lycoming Nat. Gas	East Penn Dev.	N.Y. State Nat. Gas	Lycoming Nat. Gas	East Penn Dev.	Benedum-Trees	Lycoming Nat Gas	Sylvania
TOWNSHIP	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence
LATITUDE	2.44 mi. N. 41°55'	2.50 mi. N. 41°55'	2.26 mi. N. 41°55'	2.51 mi. N. 41°55'	1.86 mi. N. 41°55'	2.60 mi. N. 41°55'	2.12 mi. N 41°55'	2.69 mi. N. 41°55'	1.86 mi. N 41°55'
LONGITUDE	0.94 mi. W. 77°10'	0.50 mi. W. 77°10'	0.37 mi. W. 77°10'	0.27 mi. W 77°10'	0.18 mi. W 77°10'	0.02 mi. W. 77°10'	0.17 mi. E. 77°10'	0.45 mi. E 77°10'	0.57 mi. E. 77°10'
DATE COMPLETED	11-21-47	8-2-32	4-30-32	2-28-48		7-35		12-17-31	5-31-31
ELEVATION	1524	1670	1836	1720	1560	1604	1501	1732	1506
TULLY	2886-2950	3049-3114	3140-3205	3094-3153	3620-3690	2940-	3550-	3053-3100	3150-3227
ONONDAGA	3808-3842	3986-	4189-	4022-4054	4690-	3900-	4671-	4005-	4107-
ORISKANY	3842-	4020-	4222-	4054-	4712-4759	3940-3975	4695-4726	4029-	4129-
HELDERBERG									
TOTAL DEPTH	3860	4027	4233	4074	4760	3990	4781	4036	4134
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	Drilled for Gas storage	32,000 MCF GAS from Oriskany, R.P. 1535 psi.	6,000 MCF GAS from Oriskany	Drilled for Gas storage	Dry in Oriskany, no S.W.	320 MCF GAS from Oriskany	Dry in Oriskany, no S.W.	4,500 MCF GAS from Oriskany, R.P. 1650 psi.	S.W. in Oriskany at 4134, rose 2500 ft.

TIOGA COUNTY

QUADRANGLE	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga
MAP NUMBER	46	47	48	49	50	51	52	53	54
NAME OF WELL	Geo. Boom 1	Geo. Boom 1	C.H. Van Zile 1	W.L. Herrington 2	W.L. Herrington 1	C.H. Van Zile 2	W. Middaugh 1	G. Burdette 1	Chas. Tremaine 1
OPERATOR	Lycoming Nat. Gas	Penn-United Gas	Mellon-Pollock	Lycoming Nat. Gas	Benedum-Trees	Mellon-Pollock	North Branch Dev.	Penn-United Gas	Benedum-Trees
TOWNSHIP	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence
LATITUDE	2.65 mi. N. 41°55'	2.50 mi. N. 41°55'	2.63 mi. N. 41°55'	2.51 mi. N. 41°55'	1.91 mi. N. 41°55'	2.71 mi. N. 41°55'	2.34 mi. N. 41°55'	2.14 mi. N. 41°55'	2.59 mi. N. 41°55'
LONGITUDE	0.73 mi. E. 77°10'	0.85 mi. E. 77°10'	1.03 mi. E. 77°10'	1.05 mi. E. 77°10'	1.20 mi. E. 77°10'	1.25 mi. E. 77°10'	1.52 mi. E. 77°10'	1.55 mi. E. 77°10'	1.62 mi. E. 77°10'
DATE COMPLETED	5-4-31	11-8-31	9-9-31	11-19-31	7-25-31	3-13-33	12-11-31	6-10-31	8-31
ELEVATION	1563	1696	1523	1620	1722	1601	1673	1572	1531
TULLY	2833-2913	3050-3120	2795-2855	3066-3130	3284-3350	2883-2941	3243-3293	3080-3160	3015-3065
ONONDAGA	3784-	4060-	3740-	4073-	4188-	3843-	4597-	4112-	3979-
ORISKANY	3807-	4082-	3764-	4096-	4218-	3870-	4654-	4139-	3999-4055
HELDERBERG									
TOTAL DEPTH	3811	4187	3768	4145	4220	3875	4672	4145	4130
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	20,000 MCF GAS from Oriskany, R.P. 1650 psi.	Show of GAS and S.W. in Oriskany at 4088	13,500 MCF GAS from Oriskany	Show of GAS and S.W. in Oriskany at 4113	25,000 MCF GAS from Oriskany, R.P. 1550 psi.	25,000 MCF GAS from Oriskany, R.P. 1440 psi.	Dry in Oriskany, no S.W.	7,000 MCF GAS from Oriskany, R.P. 1525 psi.	Show of GAS and S.W. in Oriskany at 4007

TIOGA COUNTY

QUADRANGLE	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga
MAP NUMBER	55	56	57	58	59	60	61	62	63
NAME OF WELL	M. Burdette 1	Lawrenceville Bank 1	Lawrenceville Bank 3	J.E. Tremaine 1	J.E Tremaine 2	Cath. Roe 1	J.N. Leonard 1	J.A. Kemp 1	H.C. Kemp 1A
OPERATOR	North Branch Dev	Penn-United Gas	Allegany Gas	Penn-United Gas	Penn-United Gas	Weir-Thorn	Cowanesque Gas	N.Y. State Nat. Gas	Potter Dev
TOWNSHIP	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence	Lawrence	Farmington	Farmington	Farmington
LATITUDE	2.71 mi. N. 41°55'	2.18 mi. N. 41°55'	2.26 mi. N. 41°55'	2.80 mi. N. 41°55'	2.63 mi. N 41°55'	2.21 mi. N 41°55'	1.64 mi. N. 41°55'	1.64 mi. N. 41°55'	1.36 mi. N. 41°55'
LONGITUDE	1.98 mi. E. 77°10'	2.06 mi. E. 77°10'	1.65 mi. W. 77°05'	1.54 mi. W 77°05'	0.68 mi. W. 77°05'	0.38 mi. W 77°05'	0.23 mi. E 77°15'	0.96 mi. E. 77°15'	1.29 mi. E. 77°15'
DATE COMPLETED	6-9-31	11-1-32	8-3-42	7-14-31	12-36		4-6-33	9-16-46	6-25-37
ELEVATION	1273	1378	1027	1005	1095	1406	1480	1684	1830
TULLY	2600-2655	2890-2950	2536-2604	2310-2374	2572-2627	3190-	2980-	3055-3115	3102-3170
ONONDAGA	3568-	3897-	3561-3585	3333-	3569-	4162-	3947-	3963-3986	4390-4458
ORISKANY	3580-3613	3923-	3585-3630	3355-	3605-3653	4184-4233	3970-	3986-	4458-
HELDERBERG									
SALINA				Salt 3955-					
TOTAL DEPTH	3649	3991	3646	3980	3690	4249	4030	4404	4525
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Helderberg	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	2,000 MCF GAS from Oriskany after shot, R.P. 1550 psi. in 16 hrs.	2,250 MCF GAS from Oriskany, R.P. 1530 psi.	Dry in Oriskany, no S.W.	150 MCF GAS from Oriskany after shot, R.P. 1460 psi.	Dry in Oriskany	Dry in Oriskany, no S.W.	Dry in Oriskany, no S.W.	Drilled for gas storage	S.W. in Oriskany, 1½ bbl. per hr.

TIOGA COUNTY

QUADRANGLE	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga
MAP NUMBER	64	65	66	67	68	69	70	71	72
NAME OF WELL	H.C. Kemp 1	L.B. Palmer 3	L.B. Palmer 1	L.B. Palmer 2	W.N. Pettigrew 1	S.A. Smith 1	Frank Wheeler 1	M.P. Close 1	Vine B. Hughes 1
OPERATOR	East Penn Dev.	North Penn Gas	East Penn Dev.	East Penn Dev.	Potter Dev.	Penn-United Gas	Penn-United Gas	Lycoming Nat. Gas	Midwest Oil and Gas
TOWNSHIP	Farmington	Farmington	Farmington	Farmington	Farmington	Tioga	Tioga	Lawrence	Tioga
LATITUDE	1.03 mi. N. 41°55'	1.30 mi. N. 41°55'	1.20 mi. N. 41°55'	1.44 mi. N. 41°55'	0.81 mi. N. 41°55'	1.52 mi. N. 41°55'	1.11 mi. N. 41°55'	1.74 mi. N 41°55'	1.18 mi. N. 41°55'
LONGITUDE	1.53 mi. E. 77°15'	1.54 mi. E. 77°15'	1.60 mi. E. 77°15'	1.74 mi. E. 77°15'	1.21 mi. W. 77°10'	0.29 mi. W. 77°10'	0.02 mi. W. 77°10'	1.01 mi. E. 77°10'	1.18 mi. E. 77°10'
DATE COMPLETED	3-16-31	11-8-47	9-30	5-2-31	9-10-36	7-30-31	6-20-31	7-1-31	
ELEVATION	1712	1764	1764	1849	1779	1558	1580	1634	1432
TULLY	3083-	3035-3098	3015-3100	3135-3210	3325-3398	3295-3363	3090-3150	3130-3225	3610-3680 3885-3943
ONONDAGA	4323-	3959-3978	3980-4005	4061-	4253-4285	4286-	4295-	4104-	4810-4831
ORISKANY	4350-4434	3978-	4005-	4093-	4285-	4308-	4315-	4134-	4831-
HELDERBERG	4434-								
SALINA	4830- Salt 5200-5375								
TOTAL DEPTH	5375	3988	4012	4095	4290	4420	4322	4136	4871
DEEPEST FORMATION TESTED	Helderberg	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	Dry in Oriskany, no S.W.	Drilled for gas storage	22,000 MCF GAS from Oriskany, R.P. 1665 psi.	22,500 MCF GAS from Oriskany, R.P. 1655 psi.	22,000 MCF GAS from Oriskany, R.P. 1235 psi.	Dry in Oriskany, no S.W.	S.W. in Oriskany rose 2730 ft. in 48 hrs.	70,000 MCF GAS from Oriskany, R.P. 1500 psi.	Dry in Oriskany, 1 bailer S.W. in 24 hrs.

TIOGA COUNTY

QUADRANGLE	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga
MAP NUMBER	73	74	75	76	77	78	79	80	81
NAME OF WELL	Ben Meeker 2	Ben Meeker 1	Burton Buckbee 1	Presbyterian Church 1	Lewis Treat 1	Howe Estate 1	M.V. Whitney 1	Aaron Van Druff 1	Chas. Carey 1
OPERATOR	Penn-United Gas	Penn-United Gas	Manufacturers Light and Heat	Mutual Nat. Gas	East Penn Dev.	Lycoming Nat. Gas	Morgan-Hague	Allegany Gas	Wade and Moore
TOWNSHIP	Tioga	Lawrence	Lawrence	Farmington	Farmington	Farmington	Farmington	Tioga	Tioga
LATITUDE	1.55mi. N. 41°55'	1.72mi. N. 41°55'	1.74mi. N. 41°55'	0.36mi. N. 41°55'	0.95mi. N. 41°55'	0.56mi. N. 41°55'	0.65mi. N. 41°55'	0.48mi. N. 41°55	0.42mi. N. 41°55'
LONGITUDE	1.20mi. E. 77°10'	1.20mi. E. 77°10'	1.60mi. E. 77°10'	0.42mi. E. 77°15'	0.66mi. E. 77°15'	2.04mi. E. 77°15'	0.80mi. W. 77°10'	0.15mi. W. 77°10'	1.56mi. E. 77°10'
DATE COMPLETED	2-6-32	2-17-31	6-25-31	1-31-35	7-27-34	2-5-31	11-12-31	9-24-42	
ELEVATION	1702	1677	1542	1845	1829	1743	1562	1686	1038
TULLY	3320-3390	3200-3265	3128-3206	3208-3269	3052-3120	3388-3440	3300-3388 3412-3482	3629-3700	3275-3350
ONONDAGA		4175-	4230-		3959-	4364-	4741-	4605-4629	4263-
ORISKANY		4197-	4254-		3988-	4375-	4766-	4629-4670	4285-
HELDERBERG									
SALINA								Salt 5128-5154	
TOTAL DEPTH	5045	4203	4255	4491	4006	4400	4780	5154	4317
DEEPEST FORMATION TESTED	Tully	Oriskany	Oriskany	Tully	Oriskany	Oriskany	Oriskany	Helderberg	Oriskany
RESULT	Abandoned above Oriskany	73,000 MCF GAS from Oriskany, R.P. 1530psi.	S.W. in Oriskany rose 3100ft.	Abandoned above Oriskany	4,180 MCF GAS from Oriskany, R.P. 400psi.	Slight show of GAS in Oriskany at 4391, S.W. rose 2400ft.	S.W. in Oriskany at 4779-4780, rose 100ft. in 30 min.	Dry in Oriskany, no S.W.	Dry in Oriskany, no S.W.

TIOGA COUNTY

QUADRANGLE	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga	Tioga
MAP NUMBER	82	83	84	85	86	87	88	89	90
NAME OF WELL	H.G. Smith 1	Earl Cummings 1	Wm. West 1	M.L. Loveless 1	Adams 1	W.A. Davey 1	John Lacey 1	Jud. Schofield 1	Chas. Bolt 1
OPERATOR	Taliaferro	Hultsinger	Lester and Miller	Taylor-Lynch	Adams Oil and Gas	East Penn Dev	Penn-United Gas	W.W. Kiefer et al	W.E. Snee et al
TOWNSHIP	Tioga	Middlebury	Tioga	Tioga	Charleston	Richmond	Charleston	Richmond	Covington
LATITUDE	1.13mi. S. 41°55'	1.24mi. S. 41°55'	2.35mi. S. 41°55'	2.87mi. S. 41°55'	1.51mi. S. 41°50'	2.81mi. S. 41°50'	1.45mi. N. 41°45'	1.34mi. N 41°45'	0.27mi. N. 41°45'
LONGITUDE	1.77mi. E. 77°10'	0.99mi. E. 77°15'	2.15mi. E. 77°10'	0.41mi. W. 77°05'	1.69mi. E. 77°15'	1.84mi. W. 77°00'	1.95mi. E. 77°15'	1.53mi. E. 77°10'	1.92mi E. 77°05'
DATE COMPLETED	1-28-32		6-30-32	11-5-31	12-31-31	4-30-32	11-16-33	6-23-32	7-27-49
ELEVATION	1040	1606	1065	1187	1317	1335	1677	1445	1375
TULLY	4209-4293	4101-	4730-4800	4920-5005	4562-4646	4075-4180	4267-4357	4405-	4195-4310
ONONDAGA	5205-	5016-	5740-	5987-		5223-	5254-	5475-	5347-
ORISKANY	5231-	5105-	5762-	6010-		5285-	5297-5341	5498-	5405-5440
HELDERBERG									
TOTAL DEPTH	5308	5110	5775	6028	4950	5684	5347	5548	5573
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Tully	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	Dry in Oriskany, no S.W.	Dry in Oriskany, no S.W.	Dry in Oriskany	Dry in Oriskany, no S.W.	Abandoned above Oriskany	Dry in Oriskany, no S.W.	Dry in Oriskany, no S.W.	Dry in Oriskany no S.W.	Dry in Oriskany

TABLE I, SHEET 80

TIOGA COUNTY

QUADRANGLE	Troy	Galeton	Galeton	Galeton	Hoytville	Hoytville	Hoytville	Hoytville	Hoytville
MAP NUMBER	3	1	2	5	1	2	3	4	5
NAME OF WELL	C.E. Updegraff 1	"Spiritualist" 1	L. Dickerson 1	Weiboldt 1	Tioga County Farm 1	Arthur Brook 1	D.K. Campbell 1	Ida Wheeler 1	Edgar Willard 1
OPERATOR	C.E. Updegraff et al	Day et al	N.Y. State Nat. Gas	Cayuga Gas	Wells Corp.	W.E. Snee et al	W.E. Snee and Allegany Gas	Lycoming Nat. Gas	W.E. Snee et al
TOWNSHIP	Rutland	Gaines	Gaines	Elk	Charleston	Charleston	Delmar	Delmar	Delmar
LATITUDE	0.29 mi. N. 41°50'	0.75 mi. S. 41°45'	2.6 mi. N. 41°40'	0.37 mi. N. 41°35'	0.46 mi. S. 41°45'	1.57 mi. S. 41°45'	2.56 mi. S. 41°45'	2.81 mi. S. 41°45'	1.95 mi. N. 41°40'
LONGITUDE	1.65 mi. E. 77°00'	0.21 mi. E. 77°35'	0.70 mi. E. 77°35'	2.07 mi. W. 77°30'	1.21 mi. W. 77°15'	0.90 mi. W. 77°15'	0.49 mi. W. 77°20'	0.03 mi. W. 77°20'	1.24 mi. W. 77°20'
DATE COMPLETED	8-4-32	4-15-09	8-26-38	10-1-32	6-13-32	3-15-49	1-23-41	5-31-32	9-14-48
ELEVATION	1642	1300	1447	1729(?)	1378	1764	1780	1836	1500
TULLY	4279-		4512-	5048-5125	4175-4250	4535-4620	4550-4626	4516-4605	4240-4318
ONONDAGA	5433-5502	5000-	5378-	5970-5992	5507-	5535-	5517-5529	5490-5519	5208
ORISKANY	5502-5555	not recorded	5396-	5992-6017	5528-	5569-5610	5529-5569	5519-5580	5232-5271
HELDERBERG									
TOTAL DEPTH	5592	6500	5424	6045	5581	5760	5714	5663	5352
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	Dry in Oriskany, no S.W.	Dry in Oriskany	Dry in Oriskany	Dry in Oriskany, no S.W.	Dry in Oriskany, no S.W.	Dry in Oriskany, no S.W.	Small show of GAS in Oriskany, at 5541	Dry in Oriskany, no S.W.	Small show of GAS in Oriskany at 5335

TABLE I, SHEET 81

TIOGA COUNTY

QUADRANGLE	Conton	Hoytville							
MAP NUMBER	1	6							
NAME OF WELL	W J Butters 1	Harry Benouer 1							
OPERATOR	Morris Run Coal	Wm E Snee et al							
TOWNSHIP	Union	Delmar							
LATITUDE	.70mi S 41°35'	1.46mi S 41°45'							
LONGITUDE	76mi E 77°00'	87mi W 77°20'							
DATE COMPLETED									
ELEVATION	1410	1791							
TULLY	3865-3950								
ONONDAGA	5125-								
ORISKANY	5215-5275								
HELDERBERG									
TOTAL DEPTH	5385-								
DEEPEST FORMATION TESTED	Oriskany								
RESULT	Dry in Oriskany no salt water								

TABLE I, SHEET 82

VENANGO COUNTY

QUADRANGLE	Townville	Franklin	Oil City						
MAP NUMBER	2	1	1						
NAME OF WELL	Clyde VanCamp 1	Witherop 1	Stellman 1						
OPERATOR	Hathaway Bros	Conway Bros	Carl E B McKenry et al						
TOWNSHIP	Jackson	Victory	Rockland						
LATITUDE	1.64 mi S 41°35'	2.68 mi S 41°20'	.84 mi N 41°15'						
LONGITUDE	40 mi E 79°55'	1.05 mi W 79°50'	64 mi E 79°45'						
DATE COMPLETED	4-22-44	11-88	1938						
ELEVATION	1592	963	1382						
BEREA - CORRY			-555						
MURRYSVILLE									
TULLY		3870-	4502-4557						
ONONDAGA	3945-4090		4786-4910						
ORISKANY	4090- Salt water		Sandstone absent						
HELDERBERG			4910-4985						
SALINA			5045-						
TOTAL DEPTH	4096	3880	5055						
DEEPEST FORMATION TESTED	Oriskany	Tully	Helderberg						
RESULT	OIL, 918-930 Salt water in Oriskany rose 700 ft in 1 1/4 hrs	GAS and salt water 448-468 Dry in deeper formations	Dry No sandstone at Oriskany horizon						

TABLE I, SHEET 83

WARREN COUNTY

QUADRANGLE	Youngsville	Youngsville	Youngsville	Warren	Warren	Warren	Warren	Warren	Warren
MAP NUMBER	1	2	3	1	2	3	4	5	6
NAME OF WELL	Anderson 1	Spetz 1	I L Anderson 1	Charles Erickson 1	Lessor & Louner 1 Lot 49	Lessor & Louner 1-Lot 60	M H Honhart 1	Anne C Morck et al 1	Dunham Oil Co 1
OPERATOR	T.M.Pettigrew et al	Potter Development	Star Oil	C.E.Updegraff et al	Potter Development	H.C Drilling	G.L.Cabot Inc	Belmont Quadrangle Drilling	Kane Industrial Gas
TOWNSHIP	Sugar Grove	Pittsfield	Brokenstraw	Elk	Kinzua	Kinzua	Kinzua	Pleasant	Watson
LATITUDE	3.3 mi S 42°00'	2.86 mi S 41°55'	1.45 mi N 41°50'	1.01 mi N 41°55'	2.07 mi S 41°50'	2.42 mi S 41°50'	2.41 mi S 41°50'	2.81 mi S 41°50'	1.68 mi N 41°45'
LONGITUDE	.98 mi E. 79°20'	1.68 mi E 79°30'	1.20 mi E 79°20'	1.46 mi W 79°00	.48 mi W 79°00'	.41 mi W 79°00'	.18 mi W 79°00'	1.15 mi W. 79°10'	1.79 mi E 79°15'
DATE COMPLETED	5-23-47	5-8-37	1922	9-5-38	3-8-37	8-23-36	11-20-36	12-4-37	1937
ELEVATION	1360	1849	1208	1926	1994	1944	1912	1642	1686
CORRY									
MURRYSVILLE - KNAPP		-100			125-225	80-160			
TULLY		3471-		3760-	4396-	4366-	4338-	4005-	3937-
ONONDAGA	3046-3183	3752-3907	3385-3510 Show GAS, 3460 Salt water 3488	4104-4197	4676-4711	4620-4679	4599-4660	4218-4294	4284-4364
ORISKANY	Sandstone absent	3907-3918 Sandstone absent	3510-3520	4197-4199	4711-4738 100 MCF GAS 4712-4715 3 bbl S W per day	4679- 620 MCF GAS before shot 1700 MCF after shot Drowned out by S W	4660- 7 MCF GAS 4661 Salt water rose 1300 feet in 24 hrs	4294-4311 Show of OIL 4295 1/2 bailer S W in 10 hrs.	4364-4376
HELDERBERG				4199-4257	4738-4778				
SALINA		3963-4655 Salt 4277-4300 4305-4320	Salt 3885-3910	4287-4982 Salt 4600-4615 4620-4630	4825-				
LOCKPORT	Black salt water at 3974	4655- Black salt water at 4690-4714	Black salt water at 4380	4982-5246 Show of GAS 5145-5148 Black SW 5148-5150					
ALBION — RED MEDINA (GRIMSBY)	4202-4265	4961-5043	4537-4650	5408- Show of GAS 5431-5433					
ALBION — WHITE MEDINA (WHIRLPOOL)	4295-4413	5126-5137	-4745	-5545					
QUEENSTON	4413-	5137-	4745-	5545-					
TOTAL DEPTH	4435	5165	5035	5630	4928	4689	4662	4372	4444
DEEPEST FORMATION TESTED	Albion	Albion	Albion	Albion	Oriskany	Oriskany	Oriskany	Oriskany	Oriskany
RESULT	Oriskany sandstone absent Black salt water at 3974 in Lockport Dry in Albion	Oriskany sandstone absent Black salt water in Lockport Dry in Albion	Show of GAS and S.W in Onondaga Black salt water in Lockport Dry in Albion	Salt water and Show of GAS in Lockport Show of GAS in Albion	100 MCF GAS and 3 bbl S.W. per day from Oriskany	620 MCF GAS before shot 1700 MCF after shot R.R. 1795 psi from Oriskany Drowned out by S.W.	7 MCF GAS Salt water rose 1300 feet in 24 hrs. from Oriskany	Show of OIL at 4295 in Oriskany 1/2 bailer salt water in 10 hours	Dry in Oriskany

WARREN COUNTY

QUADRANGLE	Kinzua	Kinzua	Titusville	Tidioute	Sheffield	Sheffield			
MAP NUMBER	1	9	1	1	1	2			
NAME OF WELL	E.A.Williams 1	M.W.Jamison 1	Reeves 1	Ulf 1	Dusenberry 1	Lewis Kraer 1			
OPERATOR	Appalachian Development	Sylvania	Northern Ordnance Inc	Fidelity Petroleum	Evjen & Harris	C.W.Bromer			
TOWNSHIP	Corydon	Kinzua	Southwest	Triumph	Watson	Sheffield			
LATITUDE	2.41 mi S 42°00'	2.37 mi S 41°50'	2.32 mi N 41°40'	1.32 mi N 41°40'	2.00 mi N 41°40'	1.11 mi. N. 41°40'			
LONGITUDE	.73 mi. W. 78°55'	.81 mi E. 79°00'	1.84 mi W. 79°30'	.13 mi W. 79°25'	1.12 mi. E. 79°15'	1.15 mi. W. 79°00'			
DATE COMPLETED	8-25-44	3-10-37	1945	12-29-28	5-29-38				
ELEVATION	1266	2055	1649	1642	1594	1412			
CORRY									
MURRYSVILLE - KNAPP		191-248							
TULLY	3125-	4464-	3849-		4100-				
ONONDAGA	3444-3526	4745-4799 GAS pocket, 4766	4125-4195	4206-4334	4405-4476	4440-			
ORISKANY	3526-3538 2½ boilers S.W. in 1½ hrs	4799-4819 200 gallons S.W. in 24 hrs, 4801-4805	4195-4208	4334-4349 Some salt water	4476-4480 2 MCF GAS	Not reported			
HELDERBERG					Good show GAS, 1 bbl. Oil and 5 bbl. S.W. in 7 hrs of 4532 - exhausted				
SALINA				Salt 4755-4760 4830-4835 4930-4955 4990-4995	Salt and limestone 4851-4900 5025-5052	Salt 4905-			
LOCKPORT				5150-5440 Salt water at 5350 and 5386-5391					
ALBION — RED MEDINA (GRIMSBY)			Thorold 5369-5401 Grimsby 5401-5470	5600-5707 15 MCF GAS at 5615					
ALBION — WHITE MEDINA (WHIRLPOOL)			5559-5572	5757-5782 100 MCF GAS					
QUEENSTON			5572-	5782-					
TOTAL DEPTH	3542	4830	5595	5818	5052	5288			
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Albion	Albion	Salina	Salina			
RESULT	2½ boilers S.W. in 1½ hrs. at 3527 in Oriskany	GAS pocket in Onondaga 200 gallons S.W. in 24 hrs from Oriskany	Dry in Oriskany and Albion	Salt water in Oriskany Salt water in Lockport 15 MCF GAS, Grimsby 100 MCF GAS, Whirlpool	2 MCF GAS, Oriskany Good show GAS, 1 bbl. Oil and 5 bbl S.W. in Helderberg at 4532 - exhausted	Dry			

TABLE I, SHEET 85

WASHINGTON COUNTY

QUADRANGLE	+ Burgettstown	Burgettstown	+ Burgettstown	✳ Burgettstown					
MAP NUMBER	1	2	3	4					
NAME OF WELL	A Skraba 1	R A Geary 1	J E Mc Cullough 1	A T Mc Burney 1					
OPERATOR	The Texas Co.	Peoples Nat. Gas	The Texas Co.	Norwood P. Johnston et al					
TOWNSHIP	Robinson	Robinson	Cross Creek	Mount Pleasant					
LATITUDE	.60 mi N. 40°25'	.74 mi S. 40°25'	1.70 mi S. 40°20'	1.49 mi N. 40°15'					
LONGITUDE	1.97 mi E. 80°20'	2.15 mi W. 80°15'	1.35 mi E. 80°25'	2.14 mi E 80°20'					
DATE COMPLETED	8-22-45	1917	6-21-45	3-7-38					
ELEVATION	1133	1050	1258	1278					
PITTSBURGH COAL				238-246					
BEREA	1693-1756	1610-1622	1995-	1895-1933					
MURRYSVILLE				1953-1978					
TULLY				6198-					
ONONDAGA	6010-6204 17 M C F GAS, 6034	6023-6260 Show GAS and SW, 6045	6265-6473	6475-6695					
ORISKANY	6204- SW. rose 1600 ft.	6260-6315 S.W. 6260-6265 rose 5560 ft.	6473- 3 bbl. S.W. per hr. at 6479	6695-6789 A little SW at 6728					
HELDERBERG		Show GAS, 6522 SW 6520-6530		6789-7048 Slight show GAS 6868 and 6962-6964					
SALINA		5 beds of salt, 5 to 10 ft thick, each 6700-6900							
TOTAL DEPTH	6244	7248	6485	7050					
DEEPEST FORMATION TESTED	Oriskany	Salina	Oriskany	Helderberg					
RESULT	8 GAS pockets 5915-5988 17 M C F GAS Onondaga SW in Oriskany	SW from Oriskany rose 5560 ft.	11 GAS pockets 5965-6229 S.W. in Oriskany	12 GAS pockets 6348-6460 a little SW in Oriskany slight show GAS in Helderberg					

TABLE I, SHEET 86

WESTMORELAND COUNTY

QUADRANGLE	Greensburg	+ Latrobe	* Latrobe	Latrobe	Latrobe	Latrobe	New Florence	+ New Florence	+ New Florence
MAP NUMBER	1	1	2	3	4	5	1	2	3
NAME OF WELL	John Marshall 1	Camilla F Giffin 3	L C Steiner 5	Saeger Bros 1	Booth and Flinn 1	Booth and Flinn 2	Camilla F Giffin 4	Camilla F Giffin 1	Camilla F Giffin 2
OPERATOR	Peoples Natural Gas	Peoples Natural Gas	American Locomotive	Peoples Natural Gas	Peoples Natural Gas	Peoples Natural Gas	Peoples Natural Gas	Peoples Natural Gas	Peoples Natural Gas
TOWNSHIP	Penn	Derry	Unity	Derry	Ligonier	Ligonier	Derry	Derry	Fairfield
LATITUDE	1.81 mi N 40°20'	.50 mi N 40°20'	7.9 mi S 40°20'	2.32 mi N 40°15'	1.66 mi N. 40°15'	1.61 mi N 40°15'	.46 mi N 40°20'	2.9 mi N. 40°20'	1.5 mi N 40°20'
LONGITUDE	.26 mi E 79°35'	.43 mi W 79°15'	1.15 mi W 79°25'	1.49 mi E 79°20'	1.70 mi E 79°20'	1.82 mi E 79°20'	.32 mi E 79°15'	.54 mi E 79°15'	.67 mi E 79°15'
DATE COMPLETED	8-9-38	7-31-46	8-25-46	12-20-24	3-3-20	1925		1-4-44	5-1-45
ELEVATION	1190	1640	1463	1140	1117	1122	2238	2352	2261
MURRYSVILLE	1150-1250	445-540	1465-1520		250-345			665-738	633-709
TULLY	6980-7025	6333-6375	7250-7274		6139-			7235-7285 Fault 7990-8038	
ONONDAGA	7443-7648 Top chert 7480	7045-7230 Top chert 7072	7784-8005 Top chert 7810		6800- Top chert 6817 300 MCF GAS Some salt water with GAS	6786-7025 Top chert 6797 Show of GAS at 6827			
ORISKANY	7648-	7230-7290	8005-8043 157 MCF GAS 8005-8020 after shot			7025-7100			
HELDERBERG									
SALINA						298 MCF sour GAS at 7428			
TOTAL DEPTH	7777	8174	8625	6989	6822	7756		8050	7467
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Tully ?	Onondaga	Salina		Tully	Did not reach Tully
RESULT	Dry in Onondaga and Oriskany Some GAS in shallow sands	GAS pockets at 2582 and 6978-7029 Dry in Onondaga and Oriskany	86 MCF GAS from shallow sands 143 MCF GAS before shot 157 MCF GAS after shot from Oriskany	Abandoned as a dry hole above Onondaga	300 MCF GAS from upper part Onondaga Some salt water with GAS	Show of GAS in upper part Onondaga 298 MCF sour Gas at 7824 in Salina		GAS pockets at 4512 7695 and 8050 Abandoned as a dry hole above Onondaga	Abandoned above Tully due to faulting

WESTMORELAND COUNTY

QUADRANGLE	New Florence	Connellsville	Donegal	Somerset					
MAP NUMBER	4	1	1	1					
NAME OF WELL	Margaret Glass 1	Jacobs Creek Oil Co 1	William Piper 1	John Beck 1					
OPERATOR	Potter Development, et al	Peoples Natural Gas	Peoples Natural Gas	New Penn. Dev, et al					
TOWNSHIP	Fairfield	South Huntingdon	Unity	Ligonier					
LATITUDE	1.49 mi N 40°15'	1.93 mi N 40°05'	70 mi S 40°15'	67 mi S 40°15'					
LONGITUDE	47 mi E 79°05'	1.54 mi W. 79°40'	1.27 mi W 79°20	.63 mi W 79°05'					
DATE COMPLETED	9-27-37	8-11-42	8-17-49	9-30-43					
ELEVATION	2753	964	2061	2785					
MURRYSVILLE	411-498	980-1074		313-413					
TULLY	6677-	6720-6736	7475-7550	6858-					
ONONDAGA	7578- Top chert 7600 475 M.C.F. GAS and 1 bbl. S.W per day 7607-7661	7317- Top chert 7348	8128-8301 Top chert 8158 124 M.C.F. GAS 8223-8229	8645- Top chert 8696					
ORISKANY	7719- Over 1,000 bbl. salt water per day at 7723	7902-7981	8301-8360 Shows of GAS at 8309 and 8360	8847-8950					
HELDERBERG		7981- GAS pocket, 7986	8360- Show of GAS at 8469	8950-					
SALINA									
TOTAL DEPTH	7726	8082	8552	9024					
DEEPEST FORMATION TESTED	Oriskany	Oriskany	Oriskany	Oriskany					
RESULT	475 M.C.F. GAS and 1 bbl. S.W. per day from Onondaga Over 1,000 bbl. S.W per day from Oriskany Abandoned	Small GAS pocket at 6992 Small GAS pocket at 7896 Dry in Onondaga and Oriskany	243 M.C.F. GAS from Onondaga and Oriskany after acidizing R.P. 3875 psi	GAS pockets at 7373 and 7395 Dry in Onondaga and Oriskany					

INDEX OF DEEP WELLS IN PENNSYLVANIA

A	Table 1 Sheet No.
Ackley, C. D. 1*	64
Ackley, F. A. 1	66
Ackley, Wallace 1	66
Adams 1	79
Allen, Eliza 1	2
Allen, W. H. 1	40
Alley, S. G. 3*	27
Anderson, I. L. 1	83
Anderson 1*	83
Ashton, Chet 1 (Lycoming Natural Gas Co.)	67
Ashton, Chet 1 (New Penn Development Co.)	57
B	
Bache, William 1	69
Backhaus, Fred 5	1
Baldwin, R. 1	35
Barcroft, George 1	70
Barnes, Lena 1	55
Barnes, Lena 2	55
Barton Estate, W. R. 1*	23
Barton Estate, W. R. 2*	23
Barton Estate, W. R. 3*	23
Barton Estate, W. R. 4*	23
Barton Estate, W. R. 5*	23
Barton Estate, W. R. 6*	24
Barton Estate, W. R. 7*	24
Barton Estate, W. R. 8*	24
Bean, Arthur 1	56
Beaver Falls Airport Corporation 1	2
Beck, John 1*	87
Becker, Mary 1*	6
Beidenbach, W. T. 1*	1
Benauer, Harry 1	81
Benedict, Jack 1	18
Bennett, W. B. 1	50
Berry, S. W. 1	54
Berry, S. W. 2	54
Berst, Charles B. 1	18
Bertch, James C. 1	64
Bertgess, Charles 1	17
Bishop, A. 1	47
Bishop, Freeman 1	9
Bishop, Freeman 2	9
Bittel, Wilbur J. 1	9
Blaunt, Chauncey 1	18
Blickensderfer, N. 22*	18
Bolt, Charles 1	79
Boom, George 1 (Lycoming Natural Gas Co.)	75
Boom, George 1 (Penn United Gas)	75
Boom, George 2	74
Booth, S. J. 1	38
Booth, S. J. 2	38
Booth, S. J. 3	48
Booth and Flinn 1	86
Booth and Flinn 2	86
Bostwick, William 1	72
Boyce, Frank A. 1	10
Bradford County Agricultural School 1	5
Braisted, S. C. 1*	5
Brook, Arthur 1	80
Brown, P. M. 1*	5
Byrner, et al. 33	7
Buckbee, Burton 1	78
Buczkowski, Frank 1	14
Bunker, Harry 1	37
Burd, George 1	46
Burd, George 2	46
Burdette, G. 1 (Gable, et al.)	71
Burdette, G. 1 (Penn United Gas)	75
Burdette, M. 1	76
Burnside, Otto 1	64
Burnside, Otto 2	69
Burrell, W. 1	44
Burrell, W. 2	44
Burroughs, W. E. 1	66
Burt and Lyman 1	50
Burt and Lyman 2	51
Burtch, Clive S. 1	72
Butters, W. J. 1	81
C	
Calhoun, Dorsey 1	8
Calvin, Charlotte R. 1	2
Calvin, Ellen 1*	11
Calvin, Ellen 2*	11
Campbell, Clarence 1	5

*Set of samples on file either at Carnegie Institute of Technology or at Carnegie Museum, Pittsburgh 13, Pa.

	Table 1 Sheet No.
Campbell, D. K. 1	80
Campbell-Fowler 1*	6
Carey, Charles 1	78
Carmer, R. and G. 1	49
Carothers 1	22
Carpenter, A. J. 1	39
Carpenter, A. J. 2	38
Carpenter, A. J. 18	38
Carpenter-Young 1	42
Carroll, George 1	41
Central Pennsylvania Lumber Co. 1* (G. L. Cabot Inc.)	59
Central Pennsylvania Lumber Co. 1* (Penn-Bradford Oil Co.)	30
Central Pennsylvania Lumber Co. 4	59
Central Pennsylvania Lumber Co. 5	60
Champlin, L. D. 1	51
Champlin, L. D. 2	51
Chapin, J. 1*	10
Childs, Jay 1*	17
Clair, E. N. 1	49
Clark, Frederick W. 1	41
Cloos, Horace 1	71
Close, E. W. 1	68
Close, E. W. 2	68
Close, M. P. 1	77
Cobb, Howard et al. 1	37
Cobb, Theodore 1 (G. L. Cabot Inc.)	45
Cobb, Theodore 1 (C. E. Updegraff et al.)	43
Cobb, William 1A (G. L. Cabot Inc.)	48
Cobb, William 1 (New York State Natural Gas) 1	52 52
Cobb, William 1 (Penn York Natural Gas)	42
Cobb, William 1 (Penn York Natural Gas)	46
Cobb, William 1 (Sylvania)	48
Cole, Mamie 1	50
Colegrove, Dean 1	72
Colegrove, Dean 2	72
Colegrove-Farr 1	73
Colegrove-Farr 2	73
Colegrove-Farr 3	74
Colegrove, George 1 (Allegany Gas)	68
Colegrove, George 1 (New York State Natural Gas)	73
Colegrove, George 2	73
Colegrove, T. T. 1	73
Colegrove, W. W. 1	71
Colegrove, W. W. 1B	71
Collins, E. 1*	26
Collins, S. H. 12*	33
Conneautville Bittern Well	10
Cook 134	26
Cooley, Clarence 1	74
Cooley, Clarence 2	74
Costello and Thompson 1	43
Coudersport Trust Co. 1	53
Courtwright, N. 1	56
Courtwright, R. E. 1	55
Coyle 1	40
Coyle, E. A. 1 (G. H. Rogers et al.)	52
Coyle, E. A. 1 (C. E. Updegraff et al.)	52
Coyle, Margaret 1	40
Cozad, Alfa 1*	9
Craft, H. A. 1	70
Crawford Estate 1	57
Crittendon, A. T. 1	50
Cummings 1	49
Cummings, Earl 1	79
Cummings, George 1	69
Cunningham-Zladovich 1*	3
Currie, W. E. 1-4	49
Currier, Catherine 1 (Electric Geometer)	47
Currier, Catherine 1 (United Producing)	47
Currier, Catherine 2	47

D

Dahl, N. D. 1*	11
Danforth 41*	13
Davey, W. A. 1	79
Davidson, Maude 1*	32
Davis, C. A. 1	69
Davis, E. J. 1	34
Davis, Perry S. 1	6
Dearman, C. G. 1	69
Decker, Hattie, et al. 1	64
Decker, J. H. 1	74
Delo 1	30
Dickenson, Charles 1*	5
Dickerson, F. C. 2	36
Dickerson, F. C. and Amy 1	34

	Table 1 Sheet No.
Dickerson, F. C. and Amy (Cole) 3	34
Dickerson, Fred 1 (Allegany Gas)	34
Dickerson, Fred 1 (Empire Producing)	34
Dickerson, L. 1	80
Donovan, R. 1	36
Donovan and Rathbun 1	37
Doty, George 1	57
Downing, E. W. 1	17
Duke Estate 1	44
Duke-Whitney 1	42
Dulick, John 1	25
Dunham Oil Co. 1	83
Dunham, Paul E. 1	25
Dunham, Paul E. 2	25
Dunshie 2	36
Dunshie, Bert 1 (Empire Gas and Fuel)	36
Dunshie, Bert 1 (New Penn Development)	37
Dunshie, Bert 3	37
Durfee Heirs 1	71
Dusenberry 1	84
E	
Eaton, George and L. 1	10
Edeburn, C. C. 1	32
Elliott, Emma M. 1	57
Elliott Heirs 1	74
Emporium, First National Bank of 1	7
Emporium Lumber Co. 1*	58
Emporium Lumber Co. 2	58
Emporium Lumber Co. 9	59
Emporium Lumber Co. 10	59
Emporium Lumber Co. 11	59
Emporium Lumber Co. 12	58
Emporium Lumber Co. 13	59
Emporium Lumber Co. 14	59
English, L. C. 1	55
Erickson, Charles 1*	83
Erie Deep Well	14
Estes, F. 1	46
Estes, F. 2	45
Estes, G. 1	47
Eutsey, Jesse S. 1*	24
F	
Fanker, Paul 1*	6
Farr-Colegrove 1	73
Farr-Colegrove 2	73
Farr-Colegrove 3	74
Farr-Mathor et al. 4	74
Finch, Myron 1	67
First National Bank of Emporium 1	7
Fitzstephens, M. 1	41
Fletcher, Fred 1	71
Flinn and Booth 1	86
Flinn and Booth 2	86
Follette, C. J. 1*	19
Follette, C. J. 2	19
Fowler-Campbell 1*	6
Franke, L. 1	58
French, N. E. 1	68
French, Ray 1	65
Frisbie, H. Z. 1	66
Fuhrman, Chester 1*	15
Funkhauser, Dollie and Olive 1	2
Furman, E. A. 1	48
G	
Gaber, George S. 1	15
Gale, W. L. 1*	47
Galey, John T., Trustee 1	2
Gates, George 1	9
Gates, Herbert 1	9
Gates, Herbert 2	9
Geary, R. A. 1	85
Gee, George H. 1	65
Gee, Leander 1 (Penn United Gas)	67
Gee, Leander 1 (Shaler Oil)	69
Gee, Leo 1	70
George, William 1	9
Giffin, Camilla 1*	86
Giffin, Camilla 2*	86
Giffin, Camilla 3*	86
Giffin, Camilla 4	86
Glass, Margaret 1*	87
Goldsmith, R. A. 1	35
Gooch, S. 2	51
Gorham Estate, C. W. 1	40
Gorton, Kemp, et al. 1	35
Gray Chemical Co. 1	40
Greene, P. 1	49
Greenman, O. W. 1	39
Greenwalt, C. W. 1	70
Grove, R. F. 1*	63
H	
Hall, E. J. 1	67

	Table 1 Sheet No.
Hall, W. B. 1	45
Harrington, Nellie 1	58
Harrison, Catherine 1	71
Harrison, Ray 1	43
Harrison, Ray 2	43
Hart Estate, Thomas 1	41
Hart Estate, Thomas 2	41
Hartman, William 1*	25
Haupt, May 1	61
Haynes, L. E. 1	55
Haywood, Benjamin 1*	31
Heard 1	16
Heichel, Lawrence 1*	29
Held, Carl W. 1	14
Hemphill, W. B. 1*	39
Hemphill, William B. 1	52
Henderson, Lowrie 1*	32
Herrington, Earl 1	57
Herrington, W. L. 1	75
Herrington, W. L. 2	75
Hettick, G. H. 1*	5
Heyn, Leo F. 1*	21
Heyn, Leo F. 2	21
Heyn, Leo F. 3*	22
Heyn, Leo F. 4	22
Higgins, J. J. 1	31
Higley, John 1	51
Higley, John 2	49
Hile Estate 1	43
Hill, Earl A. 1	44
Hill, F. G. and C. C. 1	29
Hill, John 1	61
Hillegas, W. 1	50
Hockenberry, Jessie G. 1*	6
Holbert, R. L. 1	42
Holm, Alfred A. 1*	17
Holmes, R. C. 1	37
Holmes, R. C. 2 (Empire Gas and Fuel)	35
Holmes, R. C. 2 (Empire Producing)	36
Honhart, M. H. 1	83
Hosley, William 1	48
House, Bertha 1	66
Howe Estate 1	78
Hoyt, Charles 1*	68
Hoyt, Charles 2	67
Hugger, A. F. 1	15
Hughes 1	29
Hughes, Vine B. 1	77
Huidenkoper 1	11
Hull, H. G. 1	15
Hunter, Floyd 1	68

I	Table 1 Sheet No.
Indian Creek Coal and Coke Co. 1	22
Indian Creek Coal and Coke Co. 2	23
Indian Creek Coal and Coke Co. 3	23
Irwin, Alice 10*	8
Irwin, W. H. (Company's Tract) 1	28
J	
Jacobs Creek Oil Co. 1*	87
James, Z. L. 1	46
James, Z. L. 2	47
James, Z. L. 3	47
James, Z. L. 4	46
Jamison, M. W. 1*	84
Jamison, R. C. 1	11
Johnson, Francis 1	64
Johnson, Rufus 1	44
Johnston, G. J. 1	11
Jones, Lloyd 1	17
Joy, F. B. 1	64
K	
Kalika, John 1	20
Kane deep well* (U.N.G. No. 3737)	13
Karhan, A. 1	65
Kemp, Elmer 1	34
Kemp, H. C. 1 (East Penn Development)	77
Kemp, H. C. 1A (Potter Development)	76
Kemp, J. A. 1	76
Kemp, Nelson 1 (Empire Producing)	34
Kemp, Nelson 1 (Belmont Quad. Drilling)	36
Kemp, Nelson 2	36
Kemp, Reva 1	37
Kemp, Roscoe 1	72
Kennedy, C. C. 1	2
Kennedy, C. M. 1*	5
Kenyon, Chloe 1	39
Kibbe, I. 1	56
Kibber, William C. 1	18
Kibbeville School 1	35
Kidney, M. F. 1	52
Kinzua Valley Chemical Co. 1*	30
Kirby, O. J. et al. 1	22
Kirk, J. 1	18

	Table 1 Sheet No.
Kline and Verstine 8	28
Koehler Estate, J. P. 1*	3
Kraer, Lewis 1	84
Kuhl-Wilston 1	72
L	
Lacey, John 1	79
Lacey, W. A. 1	79
Ladd Estate 1	43
Langworthy, B. L. 1	39
Langworthy, B. L. 2	38
Latimer, J. L. 1	65
Launer and Lessor, Lot 49 1*	83
Launer and Lessor, Lot 60 1*	83
Lawrenceville Bank 1	76
Lawrenceville Bank 3	76
Learn, Claude 1	68
Learn, Dana 1	73
Lebar, Mary 1	42
Lehigh Portland Cement 1*	6
Leonard, A. W. 1	69
Leonard, J. N. 1	76
Leslie, J. A. 1	68
Lessor and Launer, Lot 49 1*	83
Lessor and Launer, Lot 60 1*	83
Lewis, Dell 1	17
Lewis, R. R. 1	53
Lewis, Seldon 1	43
Lightcap, J. S. 1	28
Lininger, T. 1	15
Linnenbrink, Abbie et al. 1*	3
Logue, Adeline 1	7
Long, William 1	11
Lorance, Pierce 1	9
Loveless, M. L. 1	79
Lyman 1	61
Lyman, A. C. 1	53
Lyman-Burt 1	50
Lyman-Burt 2	51
Lyman-Wynkoop Lands 1*	58
M	
Mallory, L. E. and Son 1* (Appalachian Development)	30
Mallory, L. E. and Son 1* (Hiawatha Oil and Gas)	30
Manning, L. R. 1	67
Marble, A. D. 1	54
Markey, Fred 1	40
Marshall, John 1	86
Martin, Allie M. 1*	16
Martin, Lowry M. 4*	1
Matteson, Arthur E. 1*	40
Mattier, Bros. 1	16
McAllister, D. 1	54
McBurney, A. T. 1*	85
McCarthy, Fred 1	43
McCollough, A. S. 1*	32
McCollough, J. E. 1*	85
McCullum, C. E. 1	67
McCutcheon, G. 1	56
McGahan, Rance 1	19
Meade, Merle K. 1	15
Meeker, Ben 1	78
Meeker, Ben 2	78
Meister, Ernest 1*	50
Meister, Frank 1	52
Middaugh, W. 1	75
Miles, Frances 1	14
Miles, Frances 3*	14
Miller, Jessie B. 1	4
Miller Estate, Julia E. 1	58
Miller, J. Paul 1*	32
Miller, Laura M. and Myers, Harry 1*	29
Minnis, Earl B. 1*	33
Mitchell, A. R. 1	53
Moe, Frank 1	52
Moorhead 1	16
Moran, John 1	41
Moran, Michael 1*	41
Morck, Anne C. et al. 1*	83
Morley, Ella 1	40
Morley, J. D. 1	57
Morley, J. J. 1 (G. L. Cabot Inc.)	52
Morley, J. J. 1 (Williamsport Natural Gas)	52
Morris, C. V. 1*	5
Morris, Charles 1	44
Munnell, J. Scott 1*	29
Murphy, N. E. 1	24
Murray, R. R. 1	73
Murray, R. R. 2	73
Myers, Harry and Miller, Laura M. 1*	29
N	
Naylor Lands, James 1	11
Neel, Gregg 1*	24
Nelson Estate, C. W. 1	46
New York State Natural Gas Co. 1	71
Nugent, John 1	39
Nunn, Charles, et al. 2*	31

O	Table 1 Sheet No.
Obert, Elmer E. 1	10
O'Donnell Bros. 1	45
Olsen, George 1*	5
Opperman, A. J. 1	25
Osgood, Frank 1	47
Oswayo Chemical Co. 1	38
Owens, Oscar 1	65
P	
Page, Kathyrn M. 1	61
Page, Kathyrn M. 2	61
Palmer, L. B. 1	77
Palmer, L. B. 2	77
Palmer, L. B. 3	77
Patterson, Eva 1	10
Patterson, Norma 1	42
Penn Stave Co. 1	39
Pennsylvania, State of 1*	60
Pennsylvania, State of 2*	60
Pennsylvania, State of 4	60
Pennsylvania, State of 5	62
Pennsylvania, State of 6*	60
Pennsylvania, State of 7	60
Pennsylvania, State of 8	60
Pennsylvania, State of 9	60
Pennsylvania, State of 10	60
Pennsylvania, State of 11	61
Pennsylvania, State of 12	59
Pennsylvania, State of 13	62
Pennsylvania, State of 14	61
Pennsylvania, State of 15	62
Pennsylvania, State of 16	62
Pennsylvania, State of 17	61
Pennsylvania State Game Lands 1*	13
Pennsylvania State Lands 1*	58
Perry, H. O. 1	44
Peters, C. R. Unit 1 1*	59
Peterson, A. D. 1	19
Pettigreu, W. N. 1	77
Pflug, Elmer 1*	2
Phelps, Homer 1	49
Phelps, U. B. 1	49
Piedmont Coal Co. 1 (New Penn Development et al.)	21
Piedmont Coal Co. 1 (Peoples Natural Gas)	21
Piedmont Coal Co. 2*	21
Piedmont Coal Co. 3*	22
Piedmont Coal Co. 4	22
Piedmont Coal Co. 5*	22
Piedmont Coal Co. 6	22
Piper, William 1	87

	Table 1 Sheet No.
Place, Dollie 1	66
Plaested, F. 1	56
Plank School 1	34
Plants, Ed. 1*	36
Porter, Stella 1	48
Potter County Commissioners 1 (James H. Duff et al.)	50
Potter County Commissioners 1 (R. L. Christman et al.)	58
Potter County Commissioners 2	61
Powell Bros. 1	10
Presbyterian Church 1	78
Presque Isle 1	14
Preston, Fred 1	70
Price, Edith 1	66
Pride, Allen T. 1	69
Probst, H. 1	32
Pye, Earl 1	45
Pye, Mary, et al. 1	46
R	
Ransom, Ella 1	43
Rapan, Bessie 1	46
Rathbun and Donovan 1	37
Raymond, Frank 1*	54
Reeves 1*	84
Rennels, L. L. 1	53
Reynolds, Maude 1	56
Robbins, F. 1	56
Robbins, H. D. 1	57
Roberts, L. J. 1	64
Roche, F. 1	41
Roe, Catherine 1	76
Rooks, Flora 1	55
Rooks, Flora 2	56
Ruppert, P. 1	39
Russell, Ida 1	67
Russell, Ida 2	67
Russell, U. B. 1 (French et al.)	45
Russell, U. B. 1 (Penn United Gas)	49
Russell Estate, U. G. 1 (Williamsport Oil and Gas)	37
Ryan Sisters 1	70
Ryder, W. J. 1	70
S	
Saeger Bros. 1	86
Sanford, M. and J. 1	45

	Table 1 Sheet No.
Saxton, John 1	55
Schofield, Andrew 1*	55
Schofield, Andrew 2	55
Schofield, Jud. 1	79
Schofield, Leland 1	56
Scott, Gertrude 1	11
Scoville, Ida 1	54
Scoville, Merle 1	48
Sensabaugh, L. L. 1	10
Sheridan, James 1	16
Shoemaker, L. E. 1*	70
Silliman 1	16
Simmons, Burt 1*	57
Simmons, W. A. 1	64
Simpson, Milo, et al. 1*	39
Skraba, A. 1*	85
Slingerland, Effie 1	48
Smiley 1	25
Smith, C. A. 1	73
Smith, H. G. 1	79
Smith, Herm. K. 1*	32
Smith Estate, I. R. 1	24
Smith Estate, I. R. 2	24
Smith, James 1	2
Smith, Jesse 1	74
Smith, S. A. 1	77
Sorg, Mrs. J. H. 1*	21
Sorg, Mrs. J. H. 2	21
Spang-Chalfont 1*	3
Spetz 1*	83
"Spiritualist" 1	80
Stahle, Andrew 1	65
Steadman, William 1	19
Stearns, Charles 1	40
Stebbins, George 1	65
Steiner, L. C. 5*	86
Stellman 1*	82
Steve, George 1	25
Stevens, George 1	68
Stone, John 1*	53
Stone, John 2	53
Stone, John 3	53
Stone, John 4	53
Sturdevant, A. 1	38
Sturdevant, E. 1	50
Stutzman, W. W. 1	19
T	
Tarbox, G. L. 1	44
Tassell Estate 1	51
Tassell Estate 2	51
Tassell Estate 3	51
Taylor, Glenn 1*	31
Tennis Heirs, James L. 1*	2

	Table 1 Sheet No.
Thomas, Charles 2	72
Thompson and Costello 1	43
Thompson, Guy 1	45
Thompson, John R. 1*	21
Thompson Heirs, John R. 2*	21
Thompson, L. 1	45
Thornton, C. R. 1*	16
Tioga County Farm 1	80
Tormey, Catherine 1	41
Torok, Joseph 1	52
Torrey, J. A. 1	35
Treat, Lewis 1	78
Tremaine, Charles 1	75
Tremaine, D. F. 1	69
Tremaine, J. E. 1	76
Tremaine, J. E. 2	76
Trimmer, J. L. 1	65
Truax, B. E. 1	54
Turnbull, T. V. 1	70
U	
Ulf 1	84
Union Stock Bank 1	64
Updegraff, C. E. 1	80
V	
Van Camp, Clyde 1*	82
Van Druff, Aaron 1	78
Van Duzen, Burr 1	66
Van Duzen, Mrs. R. 1	66
Van Scoy, A. D. 1	30
Van Zile, C. H. 1	75
Van Zile, C. H. 2	75
Van Zile, C. H. 3	71
Verstine and Kline 8	28
W	
Wainwright, C. 1	72
Walters, George, et al. 1	23
Walters, George, et al. 2	23
Walton, Fred 1	10
Warrant 3416 4*	30
Warrant 3653 1	13
Webster, Clayton 1	42
Weiboldt 1	80
Wells, J. W. 1	48
West, Adrian 1	74
West Bingham Grange 1	42
West, William 1	79
Wheeler, Frank 1	77
Wheeler, Ida 1	80
White, A. J. 1	38

Table 1

	Sheet No.
White, Harry F. 1	12
White, Howard 1	54
White, Mary 1	35
White, Sarah 1	37
White, William 1	38
Whitman, G. M. 1	54
Whitney-Duke 1	42
Whitney, F. 1	44
Whitney, Fred 1	42
Whitney, M. V. 1	78
Wilcox, Nancy 1	50
Willard, Edgar 1	80
Williams, E. A. 1* (Appalachian Development)	84
Williams, E. A. 1* (Hiawatha Oil and Gas)	30
Williams, E. A. 1* (North Branch Development)	57
Williamson, Ellis 1	65
Willsey, Ed. 1	49
Willsey, Ed. 2	51
Wilsman, William 1*	3
Wilson, L. D. 18*	30
Wilson, M. L. 1	35
Wilston-Kuhl 1	72
Wilston, Linus 1	72
Withrop 1	82
Wolcott, R. M. 1	35
Wolcott, Ruby M. 1*	34
Wolcott, Ruby M. 2	36
Woolridge Estate, John 1*	8
Wynkoop Lands-Lyman 1*	58
Y	
Young-Carpenter 1	42
Z	
Zerbe, M. deep well*	31
Zladovich-Cunningham 1*	3

TABLE 2

DEEP WELLS

IN

NEW YORK, OHIO, WEST VIRGINIA, AND MARYLAND

Pages 116 to 148

Table 2, Sheet 1

TABLE 2, DEEP WELLS IN NEW YORK, OHIO, WEST VIRGINIA AND MARYLAND

NEW YORK

Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Westfield	1	Wm. Betts 1	Republic Light, Heat and Power	660	2303	Albion
Westfield	2	Welsh 1	Welsh Gas			Albion
Westfield	4					Albion
Westfield	9					Albion
Westfield	11					Albion
Westfield	13					Albion
Westfield	14	Chris 1	Hamilton-Fancher	1250	3080	Albion
Dunkirk	1			720		Albion
Dunkirk	2	Merritt 1		785	2241	Albion
Dunkirk	3	Woods 1				Albion
Dunkirk	4			610	2026	Albion
Dunkirk	5	Gens-Wright 1				Albion
Dunkirk	6			780		Albion
Dunkirk	7	R. and E. Theiss 1				Albion

Table 2, Sheet 2

NEW YORK						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Dunkirk	8					Albion
Dunkirk	9					Albion
Dunkirk	11	Warren S. Howell 1	Appalachian Development	668	2231	Albion
Dunkirk	12	Wenborne 1	F. L. Dougherty	659	2128	Albion
Dunkirk	13	Wenborne 2	F. L. Dougherty	605	2159	Albion
Dunkirk	14					Albion
Dunkirk	15					Albion
Dunkirk	17	Sullivan 1		1075	2586	Albion
Dunkirk	18	Harriet Pecor 1	F. L. Dougherty	661	2213	Albion
Dunkirk	19					Albion
Dunkirk	21					Albion
Dunkirk	23	Saloff 1		1240	2840	Albion
Dunkirk	24	Sanderson 1		1232	2982	Albion
Dunkirk	25	Harper 1				Albion
Dunkirk	26					Albion
Dunkirk	27					Albion

Table 2, Sheet 3

NEW YORK						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Dunkirk	28					Albion
Dunkirk	30					Albion
Dunkirk	31	L. C. Warren 1	Frost Gas	1320	3116	Albion
Cherry Creek	1	Harley 1		1120	2580	Albion
Cherry Creek	2			780		Albion
Cherry Creek	3	Burns 1		850	2234	Albion
Cherry Creek	4	Livermore 1		880		Albion
Cherry Creek	5			1080	2552	Albion
Cherry Creek	6	Ball 1		1220	2957	Albion
Cherry Creek	7	Ransom 1		1080	2396	Albion
Cherry Creek	8	Parsell 1		1420	3093	Albion
Cherry Creek	9	Thiess 1		1620	3182	Albion
Cherry Creek	10	Beebe 1		1130	2783	Albion
Cherry Creek	11	Pauline Sobozak 1	Republic Light Heat and Power		2883	Albion
Cherry Creek	12	Dubbert 1		1327	3017	Albion

Table 2, Sheet 4

NEW YORK						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Cherry Creek	13	Ball 1		1413	3110	Albion
Cherry Creek	14			1720	3417	Albion
Cherry Creek	15	Wood 1		1665	3467	Albion
Cherry Creek	16	S. P. Fairbank 1	Hanley and Bird	1966	3120	Albion
Cherry Creek	17	C. J. Sutter 1	Hanley and Bird		3303	Albion
Cherry Creek	18	Wm. Hiels 1	Hanley and Bird	1295	3264	Albion
Cherry Creek	19	Heath 1		1312	3143	Albion
Cherry Creek	20	Phillips 1	F. L. Dougherty	1310	3219	Albion
Cherry Creek	21	H. Chase 1		1550	3410	Albion
Cherry Creek	22	Wm. Higgs 1		1540	3477	Albion
Cherry Creek	23	C. M. Estee 1	Wyoga and Schrack	2039	4025	Albion
Cherry Creek	24	J. Garvey 1	Belmont Quadrangle Drilling	1641	3858	Albion
Cherry Creek	25	M. Rideout 1	Belmont Quadrangle Drilling	1591	3812	Albion
Cherry Creek	26	G. M. Franklin 1	Belmont Quadrangle Drilling	1522	3716	Albion
Cherry Creek	30	Clyde Greeley 1	Belmont Quadrangle Drilling and Bert Dorsey	1344	3562	Albion

Table 2, Sheet 5

NEW YORK						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Cherry Creek	31	Brown 1		1726	3856	Albion
Cherry Creek	32	W. Marsh 1	Belmont Quadrangle Drilling	1367	3620	Albion
Cherry Creek	33	A. G. Hoffler 1	Belmont Quadrangle Drilling	1495	3745	Albion
Cattaraugus	1		Iroquois Gas	1156	2847	Albion
Cattaraugus	2		Iroquois Gas	1187		Albion
Cattaraugus	3		Iroquois Gas		2878	Albion
Cattaraugus	4	Vinton Farm 1	J. D. Dickerson	785		
Cattaraugus	5	Palmer 1	Finance Oil and Gas	1407	3345	Albion
Cattaraugus	6					Albion
Cattaraugus	8					
Cattaraugus	11	Moran 1	Finance Oil and Gas	1422	3332	Albion
Cattaraugus	12	J. P. Strickland 1	New Penn Development	1155	3175	Albion
Cattaraugus	13	Richey 1	Deep Rock Drilling	1821	3967	Albion
Franklinville	1	Steffenhagen 1	Mader		4035	Albion
Franklinville	2	Howard 1		1625	4448	Albion
Angelica	1	Matt Conner 1	Filmore Oil and Gas	1530	5084	Oswego

Table 2, Sheet 6

NEW YORK						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Angelica	2	C. S. Steadman 1	Kerr and Kaufman	1685	2970	Oriskany
Angelica	3	M. K. Smith 1	Hanley and Bird	1728	3021	Oriskany
Angelica	5	J. S. Smith 1	Kerr and Kaufman	1596	2892	Oriskany
Angelica	6	E. C. Hoyt 1	Higgins et al.	1614	2914	Oriskany
Angelica	7	S. P. Vincent 1	Brendel and Kembro	1655	3000	Oriskany
Angelica	9	Bank of Angelica 2	Kerr, Kaufman and Higgins	1773	3157	Oriskany
Angelica	10	Vincent and Smith 1	Kerr and Kaufman	1627	2959	Oriskany
Angelica	13	E. L. Germaine 1	Hanley and Bird	1771	3077	Oriskany
Angelica	16	J. W. Slaight 1	Pennsylvania Natural Gas and Kerr and Kaufman	1655	3050	Oriskany
Angelica	17	A. Sheldon 1	S. J. Brendel et al.	1620	3027	Helderberg
Angelica	19	Bank of Angelica 3	Kaufman, Gordon et al. Hanley and Bird (to Medina)	2003	5001	Albion
Angelica	20	Bessie Byron 1	Harold French	1971	3343	Oriskany
Angelica	21	Benton F. Barringer 1	Appalachian Development	1438	3096	Oriskany
Angelica	22	Murray Estate 1	Benedum-Trees and G. L. Cabot, Inc.	1634	3225	Oriskany

NEW YORK						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Angelica	23	D. Barringer 1	Godfrey L. Cabot, Inc.	1556	3185	Oriskany
Angelica	24	R. C. Ford 1	Pennsylvania Natural Gas	1750	3450	Oriskany
Angelica	25	Murray Estate 2	Godfrey L. Cabot, Inc.	1803	3476	Oriskany
Angelica	26	Sydney Hooker 1	McKinney and Williams	1742	3700	Oriskany
Angelica	27	Harback 1	Hill and McKinney	1484	3381	Oriskany
Angelica	28	H. and L. S. Clark 1	Hanley and Bird	1350	4260	Oriskany
Angelica	29	R. Cline 1	Wittmer Oil and Gas	1785	3956	Oriskany
Canaseraga	1	L. Bennett 1	Sanderson et al.	2002	3186	Oriskany
Canaseraga	2	Glover 1	J. J. Layton		3234	
Canaseraga	3				3240	
Canaseraga	4	Dan Monaghan 1	Penn York Natural Gas	1538	2898	Oriskany
Canaseraga	5	Henry Behrens 1	Bayless et al.	1716	3225	Oriskany
Canaseraga	6	F. Terwilliger 1	Wittmer Oil and Gas	2033	4027	Oriskany
Canaseraga	7	Wm. Snyder 1	Wittmer Oil and Gas	2168	4104	Oriskany
Canaseraga	9	Engalls Estate 1	Wittmer Oil and Gas	1736	3800	Oriskany
Canaseraga	10	Ernest Lorella 1	Penn York Natural Gas	1534	3531	Oriskany

Table 2, Sheet 8

NEW YORK						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Canaseraga	11	Grace Conrad 1	Allegany Gas et al.	1787	3806	Oriskany
Hornell	1	Walter Eichorn 1	Eastern States Gas	2006	3369	Oriskany
Hornell	2	J. Magin 1	Eastern States Gas	2071	3550	Oriskany
Hornell	3	G. H. Losey 1	Wittmer Oil and Gas	1859	3415	Oriskany
Hornell	4	Oscar Tuttle 1	New York State Natural Gas	1575	3251	Oriskany
Hornell	5	Guy Ford 1	Cunningham Natural Gas	1872	3640	Oriskany
Hornell	6	J. D. Russell 1	Empire Gas and Fuel	1818	3571	Oriskany
Hornell	10	J. Schaumberg 1	Leiderbach et al.	1836	3582	Oriskany
Hornell	13	Thomas Moss 2	Empire Gas and Fuel	1678	3409	Oriskany
Hornell	14	Thomas Moss 1	Empire Gas and Fuel and Moss Syndicate	1845	3600	Oriskany
Hornell	15	B. Bennett 1	Wittmer Oil and Gas	1784	3557	Oriskany
Hornell	16	Cass Willis 1	Empire Gas and Fuel	1654	3393	Oriskany
Hornell	17	Earl House 1	Leiderbach et al.	1703	3438	Oriskany
Hornell	18	Marshall McNaughton 1	Empire Gas and Fuel	1568	3372	Oriskany
Hornell	19	J. Freeborn 1	Penn York Natural Gas	1865	3697	Oriskany

Table 2, Sheet 9

NEW YORK						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Hornell	20	Laura Gottschall 1	Empire Gas and Fuel	1619	3656	Oriskany
Hornell	21	Thomas Falzarano 1	Appalachian Development	1376	3330	Oriskany
Hornell	22	Sarah Hemphill 1	New Penn Development	1984	3993	Oriskany
Hornell	23	Amidon 1	Hanley and Bird	2080	4112	Oriskany
Hornell	24	Jerome B. Wells 1	Appalachian Development	1392	3632	Oriskany
Bath	1	Clark 1	Sawyer-Robinson	1837	2952	Oriskany
Bath	2	Daltry 1	Sawyer-Robinson	1345	2502	Oriskany
Bath	3	B. C. Wood 1	James Sanderson	1394	2600	Oriskany
Bath	4	Charles Mateon 1	J. Carpenter et al.	1608	3168	Oriskany
Bath	5	Byron Shultz 1	Wittmer Oil and Gas	1179	3140	Oriskany
Bath	6	Abbott Estate 1	Hammondsport Natural Gas, Mayer et al.	982	2780	Salina
Bath	7	Wm. Schmiedecker 1	Appalachian Development, et al.	1239	3100	Oriskany
Bath	8	D. M. White 1	Tri-State Gas	1082	2814	Oriskany
Bath	9	Archie Thompson 1	Appalachian Development	1145	2749	Oriskany
Bath	10	Harold Donaldson 1	Appalachian Development	1128	2874	Oriskany

Table 2, Sheet 10

NEW YORK						
Quadrangle	Map No.	Name of Well	Operator	Elevation	Total depth	Deepest formation tested
Hammondsport	1	Canfield 1	Jackels	895		
Hammondsport	2	Aaron Hayes 1	Belmont Quadrangle Drilling and Carpenter	1475	2057	Oriskany
Hammondsport	4	Weldy 1	Interstate Natural Gas	1476	2106	Oriskany
Hammondsport	9	Myron Fawcett 2	Oriskany Drilling	1380	1958	Oriskany
Hammondsport	10	Swartz 1	Williamsport Oil and Gas	1125	1785	Oriskany
Hammondsport	11	Bassett 2	J. Carpenter	1437	2160	Oriskany
Hammondsport	12	Bassett 1	J. Carpenter	1473	2127	Oriskany
Hammondsport	13	George Ernest 2	Tri-State Oil and Gas	1047	1666	Oriskany
Hammondsport	14	Cemetery Lot 1	Tri-State Oil and Gas	1117	1695	Oriskany
Hammondsport	15	Schmoker 1	Belmont Quadrangle Drilling	1071	1649	Oriskany
Hammondsport	25	Olezewski 3	Tri-State Oil and Gas	1251	1803	Oriskany
Hammondsport	31	V. H. Rumsey 1	Belmont Quadrangle Drilling	1158	1717	Oriskany
Hammondsport	34	Best 2 (Fee)	Belmont Quadrangle Drilling	1248	4459	Albion
Hammondsport	39	Mart Willis 1	Belmont Quadrangle Drilling	1162	1728	Oriskany
Hammondsport	41	J. Galek 2	Belmont Quadrangle Drilling	1519	2118	Oriskany

NEW YORK						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Hammondsport	44	Mike Galek 1	Belmont Quadrangle Drilling	1504	2096	Oriskany
Hammondsport	46	R. W. Litteer 1	Belmont Quadrangle Drilling	1434	2018	Oriskany
Hammondsport	51	Will Glenn 1	Belmont Quadrangle Drilling	1553	2165	Oriskany
Hammondsport	58	R. Brown 1	Parmer-Smith	1120	1740	Oriskany
Hammondsport	61	Clark 1	Burns Oil and Gas	1127	1734	Oriskany
Hammondsport	63	Chas. Deusenberg, Jr. 1	Cunningham	1286	1874	Oriskany
Hammondsport	68	H. Sherwood 1	Belmont Quadrangle Drilling	1250	1845	Oriskany
Hammondsport	73	Emmett Pulver 2	Belmont Quadrangle Drilling	1535	2154	Oriskany
Hammondsport	76	Mawney 1	J. Carpenter	1388	2082	Oriskany
Hammondsport	78	Disbrow 1	Lomoka Power	1464	2114	Oriskany
Hammondsport	79	Coolbaugh 1	Kemp et al.	1238	2002	Oriskany
Hammondsport	80	B. Wood 1	Jeckels et al.	738	2059	Oriskany
Hammondsport	81	C. D. Champlin H-1	General Foods	730	2471	Salina
Hammondsport	82	C. D. Champlin H-2	General Foods	847	4507	Albion
Hammondsport	83	Frank Sleeve 1	Hanley and Bird	1585	2447	Oriskany
Hammondsport	84	L. Putnam 1	Hungiville et al.	1841	3150	Oriskany

Table 2, Sheet 12

NEW YORK						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Hammondsport	85	J. D. Engle 2	Cobblehill Oil and Gas	1849	3815	Oriskany
Hammondsport	86	J. D. Engle 1	Cobblehill Oil and Gas	1666	3004	Oriskany
Hammondsport	87	State of New York 3	Appalachian Development	1378	2905	Oriskany
Hammondsport	88	Myron Fawcett 1	Appalachian Development	1692	3237	Oriskany
Hammondsport	90	State of New York 1	Appalachian Development	1806	3330	Oriskany
Hammondsport	91	State of New York 2	Appalachian Development	1134	2650	Oriskany
Hammondsport	92	William Button 1	New York State Natural Gas	1272	2902	Oriskany
Hammondsport	93	State of New York 1	New York State Natural Gas	1689	3320	Oriskany
Hammondsport	94	DeForest White 1	Peterman et al.	1680	3405	Oriskany
Hammondsport	95	George Vance 1	Vincent and Storms	1098	3005	Oriskany
Watkins	1	McNetton 1	Hector Valois	1230	2150	Oriskany
Watkins	2	A. M. Houseworth 1	J. Carpenter	1720	2646	Oriskany
Watkins	5	Hall 1	Bradford Supply	1400	2106	Oriskany
Watkins	6	Mary Price 1	Belmont Quadrangle Drilling	1521	2186	Oriskany
Watkins	7	J. W. Peele 1	J. W. Peele	1178	3403	Oriskany
Watkins	8	William Kress 1	Cady et al.	874	3470	Oriskany

NEW YORK						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Watkins	9	Phelps 1	Glen Oil and Gas	1596	2443	Oriskany
Watkins	10	Fee Well 10	International Salt	620	1932	Oriskany
Watkins	11	C. Kellogg 1	Burdette Oil and Gas	1886	3043	Oriskany
Watkins	12	Edward Berry 1	Belmont Quadrangle Drilling	1397	2488	Oriskany
Watkins	13	Ely Shearer 1	J. Carpenter	1308	2308	Oriskany
Watkins	14	Frank Whalen 1	Belmont Quadrangle Drilling	1381	2431	Oriskany
Watkins	15	G. Hill 1	Consumers Natural Gas	685	3424	Oriskany
Watkins	16	C. Shearer 1	Southwestern Development	1270	2340	Oriskany
Watkins	17	Webb 1	Tri-State	1679	3002	Oriskany
Watkins	18	L. Washburn 1	Belmont Quadrangle Drilling	1134	2142	Oriskany
Watkins	19	Charles Wentz 1	Watkins Salt	1170	2437	Oriskany
Watkins	20	Federal Land Bank 1	Belmont Quadrangle Drilling	1206	6600	Oswego
Watkins	21	E. Hines 1	Glenn Dearit	1040	2461	Oriskany
Ithaca	1	Remington 1		400	2192	Salina
Ithaca	2	Salt Well 1				Salina
Ithaca	3	Ithaca Well 1		396	3130	Salina

Table 2, Sheet 14

NEW YORK						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Ithaca	4	Andrew McCord 1	Belmont Quadrangle Drilling	1234	2488	Oriskany
Ithaca	5	Henry Knuatila 1	New York State Natural Gas	1501	2621	Oriskany
Ithaca	6	Mary Taubman 1	New York State Natural Gas	1397	2472	Oriskany
Ithaca	7	E. S. VanKirk 1	Leiderbach et al.	1234	2434	Oriskany
Ithaca	8	William Hager 1	Benedum-Trees	1472	5170	Oriskany
Ithaca	9					Oriskany
Dryden	1	DeForest Head 1	Leiderbach et al.	1071	2533	Oriskany
Dryden	2	Russell Thomas 1	Belmont Quadrangle Drilling	1166	2401	Oriskany
Dryden	3	Miller Brothers 1	New York State Natural Gas	1179	2315	Oriskany
Northeast	12	E. Stetson 1	Appalachian Development	1455	2562	Oriskany
Clymer	1	O. R. Reed 1	Wittmer Oil and Gas	1682	4087	Albion
Chautauqua	1	Randall 1	Southwestern Development	1520	3895	Albion
Chautauqua	2	Robert Bates 1	C. E. Bournique	1392	3000	Oriskany
Chautauqua	3	H. M. Hazzard 1	T. M. Pettigrew	1452	3549	Oriskany
Chautauqua	4	A. Donelson 1	T. M. Pettigrew	1521	4150	Albion
Jamestown	1	Jamestown Well 1		1325	3263	Oriskany

Table 2, Sheet 15

NEW YORK						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Jamestown	2	Weiss 1	Jansen, Whitehouse and Ross	1244	4700	Albion
Jamestown	3	K. R. Wilson 1	K. R. Wilson	1785		Oriskany
Randolph	2	Hotchkiss 3	Cunningham Natural Gas		4741	Albion
Randolph	5	Sharp 1	Harry Brunt et al.	1439	3354	Oriskany
Salamanca	1	Hale 1	Hanley and Bird and Belmont Quadrangle Drilling	1927	5307	Albion
Salamanca	2	Ryder Scott 1	J. Brooke Reed et al.	1876	4370	Oriskany
Olean	1	Quinlan 1	J. Brooke Reed et al.	1689	4296	Oriskany
Belmont	1	George Hackett 1	Empire Gas and Fuel	2082	4371	Oriskany
Belmont	2	Elmer Gillette 1	Godfrey L. Cabot, Inc.	1931	4278	Oriskany
Belmont	3	Briggs 1	Chautauqua Holding	1830	4010	Tully
Belmont	4	L. Newton 1	Cady et al.	1917	6500	Albion
Belmont	6	Reed 1	Belmont Quadrangle Drilling	2130	4675	Onondaga
Belmont	7	A. Gilbert 1	Belmont Quadrangle Drilling	2072	6250	Albion
Belmont	8	Ballard-Hazzard 1	Belmont Quadrangle Drilling	2101	4615	Oriskany
Belmont	9	Jennings (F. Dick) 1	Richburg Producers Assoc.	2140	4750	Oriskany

Table 2, Sheet 16

NEW YORK						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Belmont	11	Chadwick 1	Belmont Quadrangle Drilling	1860	4850	Salina
Belmont	12	T. H. Sawyer 1	T. H. Sawyer and Belmont Quadrangle Drilling	1860	4847	Salina
Belmont	13	Katherine Vossler 1	Allegany Gas and Hanley and Bird	2034	4795	Oriskany
Belmont	14	DeForest Genung 1	Allegany Gas and Hanley and Bird	2163	4900	Oriskany
Belmont	15	C. W. Vossler 1	Godfrey L. Cabot, Inc.	2415	5304	Oriskany
Belmont	16	J. H. Gadsby 1	Allegany Gas	2019	4973	Oriskany
Belmont	17	Truby Farm 1	Brown et al.	1790	3678	Tully
Wellsville	1	Frank Cornelius 1	Empire Gas and Fuel	2313	4493	Oriskany
Wellsville	2	A. Randolph 1	Norwood Johnson et al.	2250	4381	Oriskany
Wellsville	3	Cy. Rennels 1	Empire Gas and Fuel	1830	4051	Oriskany
Wellsville	4	Forest Carpenter 1	Wittmer Oil and Gas and Fairman	1785	3956	Oriskany
Wellsville	5	McEwen et al. 1	Clancy et al.	2157	4404	Oriskany
Wellsville	6	C. L. Lynch 1	Belmont Quadrangle Drilling	2208	4417	Oriskany
Wellsville	7	E. S. Hayes 1	Clancy et al.	2161	4460	Oriskany

NEW YORK						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Wellsville	9	E. T. Black 1	Pennsylvania Natural Gas and Mutual Development	1778	4103	Oriskany
Wellsville	10	Michael Lynch 1	Empire Gas and Fuel	2068	4808	Oriskany
Wellsville	11	A. Lynch 1	Godfrey L. Cabot, Inc.	2274	5002	Oriskany
Wellsville	12	Padden Estate 1	Penn York Natural Gas	1901	4629	Oriskany
Wellsville	14	Mary E. Lynch 1	Belmont Quadrangle Drilling	2049	4776	Oriskany
Wellsville	16	C. Clark 1	Empire Gas and Fuel	2138	4880	Oriskany
Wellsville	17	John Potter 1	Penn York Natural Gas	2219	4894	Oriskany
Wellsville	18	Maxton Crandall 2	Empire Gas and Fuel	2309	4928	Oriskany
Wellsville	19	Hazel Atwood 1	Empire Gas and Fuel	2292	4922	Oriskany
Wellsville	22	Sam Crandall 2	Empire Gas and Fuel	2213	5065	Oriskany
Wellsville	24	Robert Clark 1	Belmont Quadrangle Drilling	2288	5050	Oriskany
Wellsville	25	Earl Green 1	Empire Gas and Fuel	2293	5021	Oriskany
Wellsville	27	Howard Barney 1	Empire Gas and Fuel	1951	4614	Oriskany
Wellsville	31	John Lewis 1	Empire Gas and Fuel	2085	4746	Oriskany
Wellsville	33	M. Bassett 1	Empire Gas and Fuel	2188	4943	Oriskany
Wellsville	34	Hazelton (O'Dell) 1	Belmont Quadrangle Drilling	2152	4840	Oriskany

Table 2, Sheet 18

NEW YORK						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Wellsville	36	H. Seaver 1	Empire Gas and Fuel	2053	4783	Oriskany
Wellsville	37	Hiram Miller 1	Belmont Quadrangle Drilling, New York State Natural Gas, and Haupt	2204	4916	Oriskany
Wellsville	39	Milford Bassett 1	Empire Gas and Fuel	2066	4788	Oriskany
Wellsville	40	Oscar Potter 1	Empire Gas and Fuel	2194	4952	Oriskany
Wellsville	41	Kate Clarke 1	Godfrey L. Cabot, Inc.	2150	4853	Oriskany
Wellsville	42	James Clarke Est. 1	Empire Gas and Fuel	2189	4878	Oriskany
Wellsville	43	Albert McLean 1	Empire Gas and Fuel	2226	4945	Oriskany
Wellsville	44	Alfred Billings 1	Belmont Quadrangle Drilling	2199	4922	Oriskany
Wellsville	45	Milton M. Loring 1	Schrack et al.	1855	4672	Oriskany
Wellsville	46	William Burrows 1	Cunningham Natural Gas	2082	4887	Oriskany
Wellsville	47	C. Johnson 2	Cunningham Natural Gas	2191	4897	Oriskany
Wellsville	48	George Lampe 1	Belmont Quadrangle Drilling	2233	4936	Oriskany
Wellsville	50	William Shear 2	Cunningham Natural Gas	2220	4955	Oriskany
Wellsville	51	William Shear 3	Cunningham Natural Gas	2143	4821	Oriskany
Wellsville	53	Fred Hilligas 3	Belmont Quadrangle Drilling	2194	4886	Oriskany

Table 2, Sheet 19

NEW YORK						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Wellsville	55	Cyrus Wilson 1	Belmont Quadrangle Drilling, Fairman et al.	2280	4991	Oriskany
Wellsville	59	Fred Hilligas 2	Belmont Quadrangle Drilling	2234	4928	Oriskany
Wellsville	60	Riley Brothers 1	Becker et al.	2206	4911	Oriskany
Wellsville	68	John Ludden 1	Belmont Quadrangle Drilling	2236	5008	Oriskany
Wellsville	70	Floyd Wilson 1	Empire Gas and Fuel	2216	4920	Oriskany
Wellsville	71	Claude Graves 1	Empire Gas and Fuel	2183	5219	Oriskany
Wellsville	72	Dora Barber 2	Godfrey L. Cabot, Inc.	1645	4424	Oriskany
Wellsville	73	Johnson Estate 1	Southwestern Development	2015	4745	Oriskany
Wellsville	75	Downs Estate 1	Schrack	1896	4651	Oriskany
Wellsville	80	Knox-Lewis 1	Schrack et al.	1676	4410	Oriskany
Wellsville	89	Alice Cunningham 1	Godfrey L. Cabot, Inc.	2064	4953	Oriskany
Wellsville	90	James O'Hara 1	Belmont Quadrangle Drilling	2172	4969	Oriskany
Wellsville	92	Josephine Ryan 1	Sinclair Refining	2074	4842	Oriskany
Wellsville	93	G. G. Baham 1	Belmont Quadrangle Drilling	2209	5374	Oriskany
Wellsville	94	Empire-Rogers 1	Godfrey L. Cabot, Inc.	2189	4924	Oriskany

Table 2, Sheet 20

NEW YORK						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Wellsville	105	C. D. Regan 1	Cunningham Natural Gas	2135	4869	Oriskany
Wellsville	109	James O'Hara 2	Cunningham Natural Gas	1915	4695	Oriskany
Wellsville	110	F. Rigby 1	Van Gilder	2269	5513	Oriskany
Greenwood	1	Ashbaugh Fee 1	Belmont Quadrangle Drilling	2045	4408	Oriskany
Greenwood	2	Clara Lynch 1	Belmont Quadrangle Drilling	2288	4719	Oriskany
Greenwood	3	Glen Vanderhof 1	Hanley and Bird	1264	3747	Oriskany
Greenwood	4	Porter 1	Freeman and McIntyre	1889	4135	Oriskany
Greenwood	5	George Coots 1	Allegany Gas	2307	4665	Oriskany
Greenwood	6	William Hyland 1	Belmont Quadrangle Drilling	2348	4822	Oriskany
Greenwood	7	William Ackley 1	Belmont Quadrangle Drilling	2245	4724	Oriskany
Greenwood	8	M. Ackley 1	Hanley and Bird	2044	4516	Oriskany
Greenwood	9	T. H. Wing 1	Godfrey L. Cabot, Inc.	1712	4193	Oriskany
Greenwood	10	Otho Quick 1	Appalachian Development	1548	4053	Oriskany
Greenwood	11	Broughton 1	Wittmer Oil and Gas	1545	4003	Oriskany
Greenwood	12	Warner 1	Wittmer Oil and Gas	2079	4558	Oriskany
Greenwood	14	L. Webber 1	Wittmer Oil and Gas	1792	4260	Oriskany

NEW YORK						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Greenwood	17	T. H. Wing 1 (Coston 2)	Belmont Quadrangle Drilling	2301	4738	Oriskany
Greenwood	21	Anna Coston 1	Belmont Quadrangle Drilling	2016	4547	Oriskany
Greenwood	22	New York State 2	Empire Gas and Fuel	2345	4840	Oriskany
Greenwood	24	C. D. Clark 1	Belmont Quadrangle Drilling	2265	4763	Oriskany
Greenwood	25	Ray Scribner 1	Godfrey L. Cabot, Inc.	1667	4180	Oriskany
Greenwood	26	Silar Kellogg 1	Wittmer Oil and Gas	1619	4164	Oriskany
Greenwood	27	George McCaffrey 1	Wittmer et al., Hanley and Bird	2072	4593	Oriskany
Greenwood	28	W. E. Reese 1	New York State Natural Gas	2215	4847	Oriskany
Greenwood	29	Ames Rogers 1	Empire Gas and Fuel	2190	4840	Oriskany
Greenwood	30	Mary Rogers 1	Hanley and Bird	2330	4891	Oriskany
Greenwood	32	Stanley Murray 1	Hanley and Bird	2318	4874	Oriskany
Greenwood	34	Jessie Armstrong 1	Appalachian Development et al.	1554	4090	Oriskany
Greenwood	35	Mary Berger 1	Hanley and Bird	1871	4562	Oriskany
Greenwood	36	George Murphy 1	New York State Natural Gas	1712	4205	Oriskany
Greenwood	37	Arthur Whiting 1	New York State Natural Gas	1611	4090	Oriskany

Table 2, Sheet 22

NEW YORK						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Greenwood	38	Myra Wallace 1	Sylvania	1770	4282	Oriskany
Greenwood	39	Cartwright Fee 1	Empire Gas and Fuel	2247	4901	Oriskany
Greenwood	40	J. H. McCormick 1	Rex Natural Gas	2234	4946	Oriskany
Greenwood	41	Floyd Sherman 1	H. R. Van Gilder	2236	4838	Oriskany
Greenwood	42	J. Coleman 1	Eastern Royalties, Inc.	2298	5156	Oriskany
Greenwood	43	E. P. Daily 1	Belmont Quadrangle Drilling	2287	5077	Oriskany
Greenwood	45	Sarah Nixon 1	Penn York Natural Gas	2213	5016	Oriskany
Greenwood	47	Jessie Lewis 1	Belmont Quadrangle Drilling	2279	5216	Oriskany
Greenwood	48	J. F. Hamilton 1	Penn York Natural Gas	2222	5013	Oriskany
Greenwood	51	John Saxon 2	Penn York Natural Gas	2172	5074	Oriskany
Greenwood	52	George Lewis 2	Belmont Quadrangle Drilling	2318	5100	Oriskany
Greenwood	53	Harriett H. Joyce 1	Penn York Natural Gas	2204	5091	Oriskany
Greenwood	54	Clara W. Johnson 1	Penn York Natural Gas	2103	5100	Oriskany
Greenwood	55	Dan Johnson 1	Kane and Christman	2280	5285	Oriskany
Greenwood	57	Charles Lewis 1	New Penn Development, et al.	2197	5255	Oriskany
Greenwood	58	William Hendrickson 1	Sylvania	2170	5123	Oriskany

Table 2, Sheet 23

NEW YORK						
Quadrangle	Map No.	Name of well		Elevation	Total depth	Deepest formation tested
Greenwood	59	Mrs. G. R. Cady 1	New York State Natural Gas	1915	4948	Oriskany
Greenwood	60	Sarah Hammond 1	New York State Natural Gas	2059	5060	Oriskany
Greenwood	61	Roger Lozier 1	New York State Natural Gas	2092	5364	Oriskany
Greenwood	63	E. Dearman 1	Acme Drilling	1616	4896	Oriskany
Greenwood	64	Elmer Downey 1	Godfrey L. Cabot, Inc.	2271	5328	Oriskany
Greenwood	65	C. D. Carr 1	New York State Natural Gas	2209	5198	Oriskany
Greenwood	67	Adolph Schaul 1	New York State Natural Gas	2058	5027	Oriskany
Greenwood	68	E. G. Cady 1	New Penn Development	2062	5042	Oriskany
Greenwood	69	Joseph McKean 1	Sylvania	2083	4838	Oriskany
Greenwood	70	C. A. Stebbins 1	Appalachian Development			(drilling)
Woodhull	1	Eddy Fenner 1	Peterman, Ivers et al.	1360	3333	Oriskany
Woodhull	2	Bert Keith 1	Higgins and Peterman	1267	3269	Oriskany
Woodhull	4	Foster Estate 1	Allegany Development and Royalty	1673	3934	Oriskany
Woodhull	5	John McCaig 1	Belmont Quadrangle Drilling	1029	3390	Oriskany
Woodhull	6	E. McCorkle 1	Fields, McCorkle et al.	1363	3754	Oriskany

Table 2, Sheet 24

NEW YORK						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Woodhull	7	Bert Healy 1	Belmont Quadrangle Drilling	1713	4187	Oriskany
Woodhull	8	Clara Bettinger 1	Belmont Quadrangle Drilling	1783	4205	Oriskany
Woodhull	11	Baptist Church 1	C. P. Wharton et al.	1506	3887	Oriskany
Woodhull	15	Frank Boyd 1	New York State Natural Gas	1515	3901	Oriskany
Woodhull	17	Andrew Taft 1	Belmont Quadrangle Drilling	1807	4202	Oriskany
Woodhull	20	Clifford Owens 1	Godfrey L. Cabot, Inc.	1675	4262	Oriskany
Woodhull	21	Sylvia Allen Heirs 1	New Penn Development	1771	4182	Oriskany
Woodhull	22	Adelbert Shaul 1	Belmont Quadrangle Drilling	1712	4137	Oriskany
Woodhull	23	E. Walwrath 1	Cunningham and New Penn Development	1788	4165	Oriskany
Woodhull	27	Federal Land Bank 1	Godfrey L. Cabot, Inc.	1642	4180	Oriskany
Woodhull	29	Charles W. Hubbard 1	New York State Natural Gas	1700	4279	Oriskany
Woodhull	30	Sarah A. House 1	New York State Natural Gas	1722	4566	Oriskany
Woodhull	31	B. Hibbard 1	Godfrey L. Cabot, Inc.	1452	4258	Oriskany
Woodhull	32	Roy Perkins 1	Benedum-Trees	1664	4338	Oriskany
Woodhull	33	George Hotaling 2	Godfrey L. Cabot, Inc.	1401	3937	Oriskany

NEW YORK						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Woodhull	38	Charles Crane 1	Godfrey L. Cabot, Inc.	1245	3771	Oriskany
Woodhull	39	C. Crane 3	Godfrey L. Cabot, Inc.	1404	3960	Oriskany
Woodhull	40	Park Estate 1	Lycoming Natural Gas	1378	3875	Oriskany
Woodhull	41	Park Estate 2	New York State Natural Gas	1181	3663	Oriskany
Woodhull	43	John Holles 1	New York State Natural Gas	1133	3642	Oriskany
Woodhull	44	D. R. Wilson 1	Allegany Gas et al.	1539	4810	Oriskany
Woodhull	52	Harry M. Chase 1	New York State Natural Gas	1052	3884	Oriskany
Woodhull	53	Earl Brown 1	Southwestern Development	1591	3984	Oriskany
Woodhull	57	Ray Herrington 1	North Penn Gas, Atwater et al.	1546	3957	Oriskany
Woodhull	63	A. H. Tuttle 1	Sylvania	1457	3885	Oriskany
Woodhull	66	George Hotaling 1	Godfrey L. Cabot, Inc.	1281	3781	Oriskany
Woodhull	67	Henry J. Tubbs 1	New York State Natural Gas	1488	3875	Oriskany
Woodhull	68	E. T. Bates 1	Lycoming Natural Gas	1445	3899	Oriskany
Woodhull	69	Della Calhoun 1	Sylvania	1738	4167	Oriskany
Woodhull	73	Park Estate 4	New York State Natural Gas	1537	3991	Oriskany
Woodhull	74	Frank Young 1	Sylvania	1170	3937	Oriskany

NEW YORK						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Woodhull	76	John Gardner 1	Sylvania	1084	3793	Oriskany
Woodhull	79	Frank M. Bates 1	New York State Natural Gas	1115	3882	Oriskany
Woodhull	80	Herbert Coon 1	A. Neider et al.	1332	4238	Oriskany
Woodhull	81	William Carpenter 1	New York State Natural Gas	1609	4217	Oriskany
Woodhull	82	Neva Husted 2	Godfrey L. Cabot, Inc.	1565	4022	Oriskany
Woodhull	85	Charles Finch 1	Lycoming Natural Gas	1760	4034	Oriskany
Woodhull	88	Hattie Hand 1	Sylvania	1743	4000	Oriskany
Woodhull	95	E. H. Ackerman 1	S. J. Brendel	1775	4137	Oriskany
Woodhull	97	Fenner Taft 1	Lycoming Natural Gas	1500	4106	Oriskany
Woodhull	98	John Dorr 1	Williamsport Natural Gas	1849	4865	Oriskany
Woodhull	99	Ray Reynolds 1	New York State Natural Gas	1667	4609	Oriskany
Woodhull	100	Hugh McTamney 1	Hanley and Bird	1331	4212	Oriskany
Woodhull	101	Lester Gurnsey 1	New York State Natural Gas	1878	4693	Oriskany
Woodhull	102	Franklin Miller 1	New York State Natural Gas	1805	4229	Oriskany
Woodhull	103	Neva Husted 1	Godfrey L. Cabot, Inc.	1598	3950	Oriskany
Woodhull	104	Coral Cook 1	Godfrey L. Cabot, Inc.	1954	4445	Oriskany

Table 2, Sheet 27

NEW YORK						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Woodhull	105	E. G. Husted 1	Sylvania	1882	4199	Oriskany
Woodhull	106	William J. Hoyt 1	John Cunningham	1603	4525	Oriskany
Woodhull	107	Jeffrey Morris 1	Evjen et al.	1699	4814	Oriskany
Woodhull	108	Leonard L. Grist 1	New York State Natural Gas	1932	5080	Oriskany
Corning	1	Edward Fisk 1	Harry Erwin et al.	1331	3375	Oriskany
Corning	2	Pooley 1	Peterman et al.	1046	2947	Oriskany
Corning	3	E. E. Callahan 1	Corning Glass Works	1052	3058	Oriskany
Corning	4	Ray Knowles 1	Knute Evjen et al.	1584	3647	Oriskany
Corning	5	Ellen Collins 1	Godfrey L. Cabot, Inc.	1718	6825	Albion
Corning	6	Fred Farnham 1	Van Gilder et al.	1646	3986	Oriskany
Corning	7	L. Lilley 1	Empire-Keystone	1624	3838	Oriskany
Corning	8	J. P. Troy 1	Allegany Gas, et al.	1636	3954	Oriskany
Corning	9	Frank C. Platt 1	Leiderbach et al.	1152	3670	Oriskany
Corning	10	Alfred Keegan 1	New York State Natural Gas	1668	4173	Oriskany
Corning	11	Truman Cole 1	New York State Natural Gas	1557	4214	Oriskany
Corning	12	Truman Cole 2	New York State Natural Gas	1437	3822	Oriskany

Table 2, Sheet 28

NEW YORK						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Corning	13	D. Hovey 1	Clancy et al.	1479	4016	Oriskany
Corning	14	M. Landers 1	Allegany Gas et al.	1453	3807	Oriskany
Corning	15	Carmella Papa 1	New York State Natural Gas	1674	4063	Oriskany
Corning	16	N. D. Phelps, Sr. 1	Cunningham Natural Gas	1347	3829	Oriskany
Corning	17	George Marland 1	Spencer Hill Development	1528	4127	Oriskany
Corning	18	Abie Ackerson 1	Landie Co.	1609	4364	Oriskany
Corning	20	George LeMunyon 1	New York State Natural Gas	1005	3838	Oriskany
Corning	21	Hill 1	Lampier et al.	1543	4480	Oriskany
Corning	22	Monroe 1	Morgan et al.	1552	4769	Oriskany
Elmira	1	Willis 1	Pitman et al.	1230	3135	Oriskany
Elmira	2	Herbert May 1	D. Y. M.	987	2754	Oriskany
Elmira	3	Archie Turner 1	Dearth et al.	1086	3085	Oriskany
Elmira	4	A. E. Beebie 2	D. Y. M.	1264	2997	Oriskany
Elmira	5	A. E. Beebie 1	D. Y. M.	1339	3055	Oriskany
Elmira	6	Horton Alger 1	Corning Glass Works	1791	3794	Oriskany
Elmira	7	Berthod 1	Elmira Natural Gas	911	3433	Oriskany

NEW YORK						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Elmira	8	Leonard Baker 1	Updegraff et al	862	2762	Oriskany
Elmira	14	Consolidated Brick 1	Belmont Quadrangle Drilling	1002	2918	Oriskany
Elmira	15	W. W. Gregg 1	Belmont Quadrangle Drilling	1173	3129	Oriskany
Elmira	18	John Murphy 1	Benedum-Trees	1279	3940	Oriskany
Elmira	19	Harold Shay 1	Rogers et al.	855	2732	Oriskany
Elmira	22	George Rickard 1	C. E. Updegraff 1	850	2800	Oriskany
Elmira	23	Bert Harder 1	Rogers et al.	956	3229	Oriskany
Elmira	24	Viola Messing 1	Rogers et al.	1349	4008	Oriskany
Waverly	1	George W. Wood 1	Belmont Quadrangle Drilling	1470	3212	Oriskany
Waverly	2	Carrie Treat 1	Belmont Quadrangle Drilling	1663	3447	Oriskany
Waverly	3	Frank Husted 1	New York State Natural Gas	1512	3414	Oriskany
Waverly	4	S. H. English 1	New York State Natural Gas	1286	3362	Oriskany
Waverly	5	E. C. Kesselring 1	New York State Natural Gas	1077	8371	Oswego
Waverly	6					
Waverly	7					
Waverly	8	Clyde Bennett 1	New York State Natural Gas	1079	3463	Oriskany

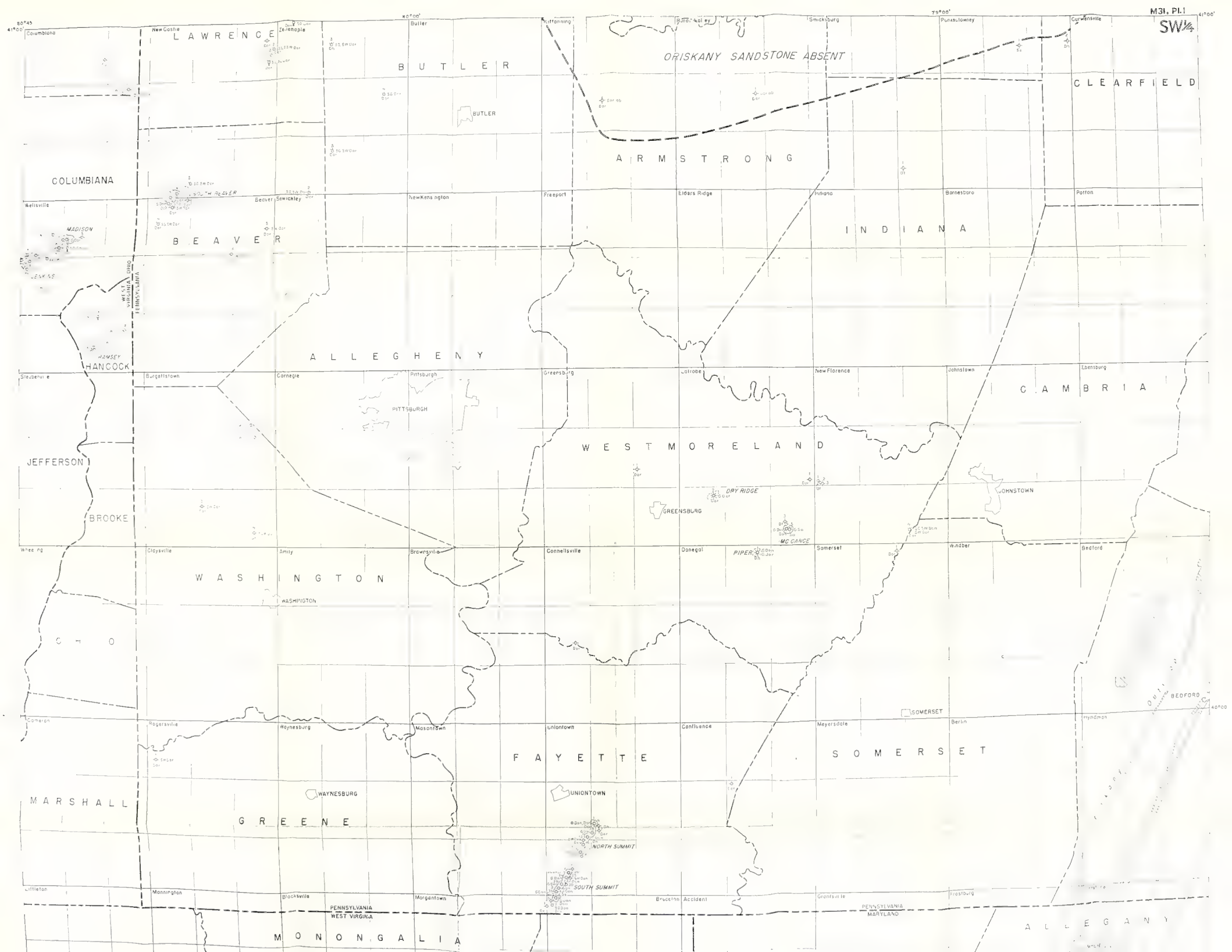
Table 2, Sheet 30

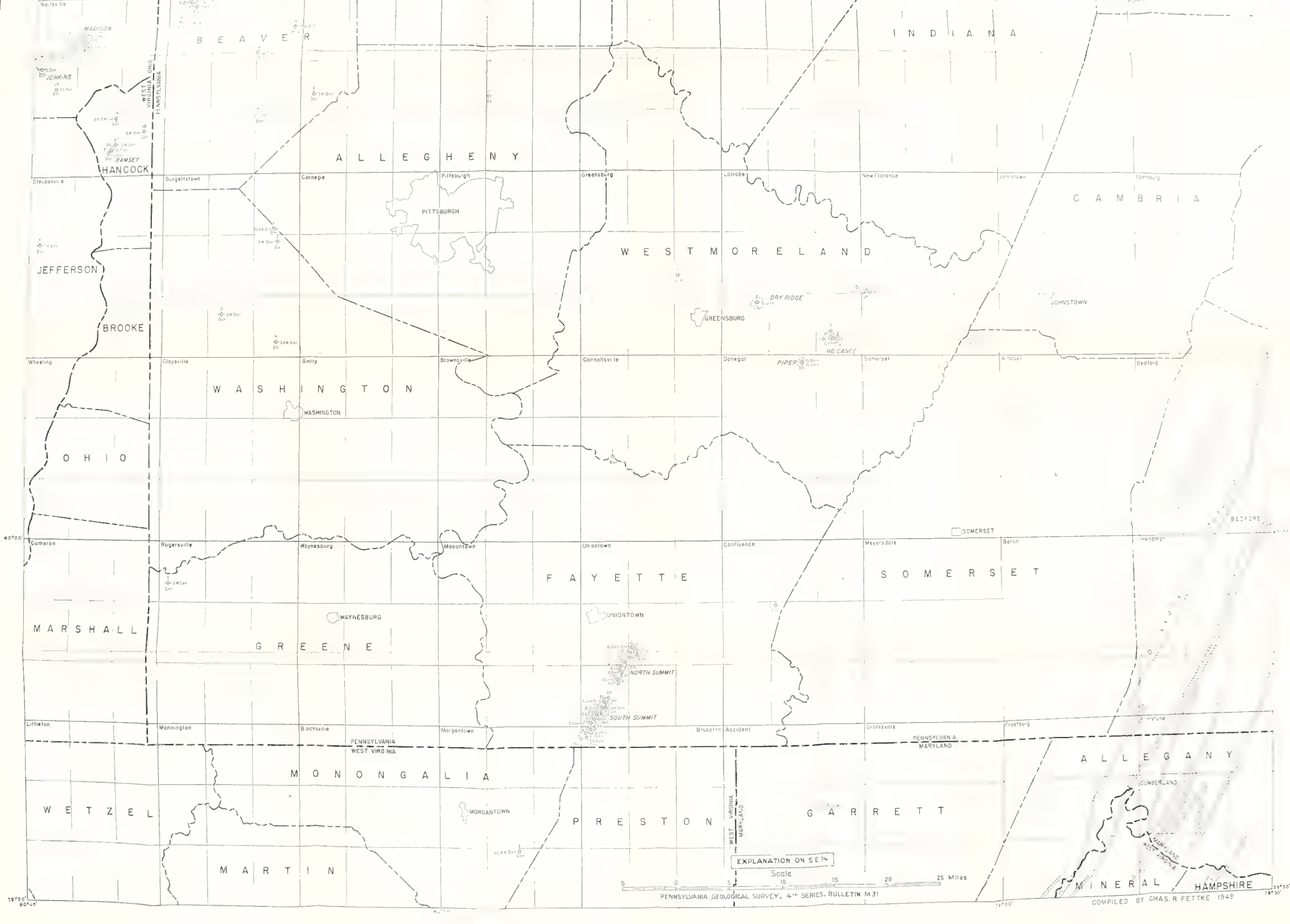
NEW YORK						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Waverly	9	Ingram 1		778	3820	Oriskany
Owego	1	Wilbur E. Stevens 1	New York State Natural Gas	965	3150	Oriskany
Owego	2	B. Miller 1	Tioga Utilities	979	3400	Oriskany
Owego	3	Pumpelly 1	American-Canadian Utilities	925	4130	Oriskany
OHIO						
Conneaut	1	Mae Allen 1	Beeghly and Shaffer	618		Albion
Conneaut	3	Mace 1	Beeghly and Shaffer	688	1775	Oriskany
Conneaut	6	J. B. Ring 1	Beeghly and Shaffer	683	2780	Albion
Conneaut	9	Harry White 1	Beeghly and Shaffer	683	2950	Albion
Conneaut	12	William Bourne 1	General Electric	714	2945	Albion
Conneaut	13	Ida Maki 1	Beeghly and Shaffer	600	2758	Albion
Conneaut	14	J. H. George 1	Brendel Gas	838	3095	Albion
Conneaut	15	J. Y. Hadlock 1	Hellanic Petroleum	712	3005	Albion
Conneaut	16	G. W. Kelsey 1	Ohio Fuel Gas	852	5582	Trenton
Andover	1	Hatton Brothers 1	Ohio Oil	1049	3841	Albion
Andover	2	G. W. Swezey 1		1076	2662	Oriskany

OHIO						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Andover	3	Andover 1		1065		Oriskany
Andover	4	Kinleyside 1		1090	4180	Albion
Andover	5	Titus A. Hayes 1	Western Reserve Oil		2840	Oriskany
Kinsman	1	J. E. McCamey 1	S. M. and J. R. Vincent	1022		Albion
Kinsman	2	Earl Hipkins 2	Hickman and Hart	958	3072	Oriskany
Kinsman	3	R. M. Biggins 1	Collins et al.	1184	3310	Oriskany
Kinsman	5	Klingensmith 1	Hickman and Hart	1203	3328	Oriskany
Kinsman	6	Earl Hipkins 1	Hickman and Hart	1217	4845	Albion
Kinsman	9	Paul Lusick 1	Hickman and Hart	1249	3377	Oriskany
Kinsman	13	Edward Hadsel 1		931	3742	
Kinsman	14	Orangeville 1	Getman et al.	912	3089	Oriskany
Youngstown	1	R. and B. Fenton 1	Phillips Brothers	1135	4047	Oriskany
Youngstown	2	Marshall Justice 1	West Virginia Natural Gas	1108	3975	Oriskany
Youngstown	3	T. W. Baird 1	Tri-State Gas	1160	4048	Oriskany
Columbiana	1	Braunstein 1	Eastern Ohio Gas	1162	6059	Albion
Columbiana	2	G. B. and R. Smith 1	Eastern Ohio Gas	1104	4402	Oriskany

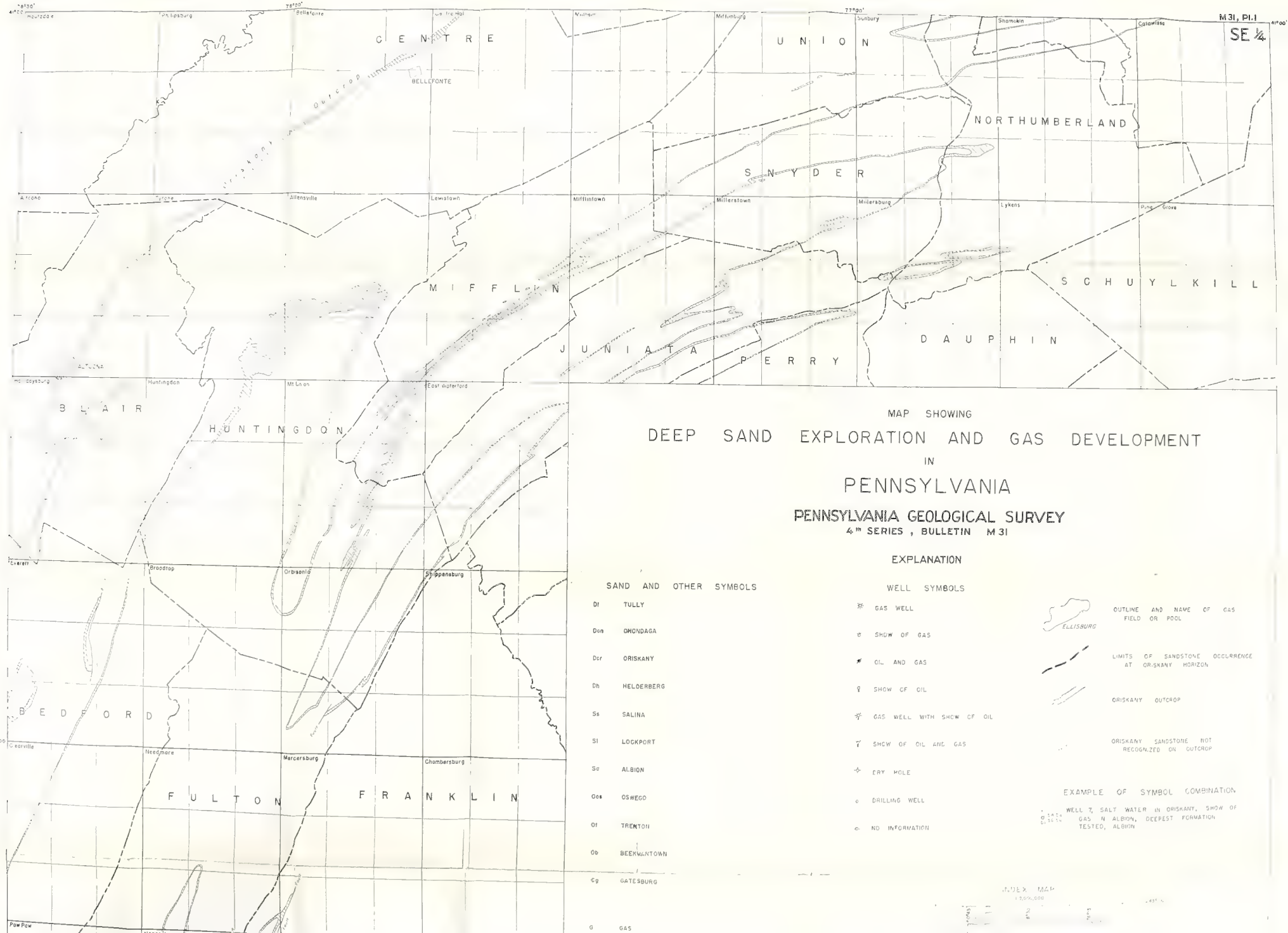
OHIO						
Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
Columbiana	3	J. and A. Petrek 1	Eastern Ohio Gas	1087	4384	Oriskany
Wellsville	1	George Eells 1	Ray Miller	1066	4452	Oriskany
Wellsville	2	J. Chaney (Prescott) 1	C. A. Smith, Jr.	1012	4330	Oriskany
Wellsville	4	F. Daily 1	C. A. Smith, Jr.	1119	4437	Oriskany
Wellsville	5					
Wellsville	6	Gladys L. Powell 1	J. T. Galey and Ohio Oil	1143	4474	Oriskany
Wellsville	8	William McFarland 1	Smith and Galey	1154	4482	Oriskany
Wellsville	9	N. P. Feingold 1	Natural Gas Company of West Virginia	1155	4457	Oriskany
Wellsville	10	H. Ketchum 1	Natural Gas Company of West Virginia	1223	4521	Oriskany
Wellsville	11	Nila McIntyre 1	R. W. Cushing et al.	1244	4618	Oriskany
Wellsville	12	William and Eva Tice 1	Natural Gas Company of West Virginia	1169	4458	Oriskany
Wellsville	14	E. Strudthoff 2	Natural Gas Company of West Virginia	1145	4438	Oriskany
Wellsville	15	Margaret Jenkins 1	Natural Gas Company of West Virginia	1292	4570	Oriskany

Quadrangle	Map No.	Name of well	Operator	Elevation	Total depth	Deepest formation tested
OHIO						
Wellsville	16	E. Strudthoff 1	Natural Gas Company of West Virginia	1156	4455	Oriskany
Wellsville	17	R. B. Falconer 1	O. Eberly	1175	4496	Oriskany
WEST VIRGINIA						
Wellsville	18	Rachel E. Talbot 1	John T. Galey	1273	5015	Oriskany
Wellsville	19	C. A. Smith 1	Smith Petroleum	1124	5012	Oriskany
Wellsville	20	H. Balser 1	John T. Galey et al.	891	4619	Oriskany
Wellsville	21	Wayne Norman 1	George Samson et al.	1043	4800	Oriskany
Wellsville	22	L. Ramsey 1	John T. Galey et al.	1072	4829	Oriskany
Steubenville	1	Wayne Coal Co. 1	Eastern Ohio Division	1172	5300	Oriskany
Morgantown	2	H. C. Greer 1	Hope Natural Gas	1462	7684	Oriskany
MARYLAND						
Accident	1	Schartzer 1	Snee et al.	2615	8163	Oriskany


SW1/4
80°45'
41°00'
80°00'
79°00'
41°00'
40°00'
ORISKANY SANDSTONE ABSENT
LAWRENCE
BUTLER
ARMSTRONG
CLEARFIELD
COLUMBIANA
BEAVER
INDIANA
ALLEGHENY
HANCOCK
CAMBRIA
WESTMORELAND
JEFFERSON
BROOKE
WASHINGTON
OHIO
FAYETTE
SOMERSET
MARSHALL
GREENE
MONONGALIA
ALLEGANY
BEDFORD
Columbiana
New Castle
Zelienople
Butler
Kittanning
Ebensburg
Smicksburg
Punxsutawney
Curwensville
Wellsville
Beaver
Sewickley
Newkensington
Freeport
Elders Ridge
Indiana
Barnesboro
Potton
Steubenville
Burgettstown
Carnegie
Pittsburgh
Greensburg
Latrobe
New Florence
Johnstown
Ebensburg
Wheeling
Claysville
Amity
Brownsville
Connellsville
Donegal
Somerset
Windber
Bedford
Cameron
Rogersville
Waynesburg
Masontown
Uniontown
Confluence
Meyersdale
Berlin
Hyndman
Littleton
Mannington
Blacksville
Morgantown
Bruceton
Accident
Grantsville
Frostburg
BUTLER
MADISON
SOUTH BEAVER
RAMSEY
PITTSBURGH
DRY RIDGE
GREENSBURG
JOHNSTOWN
MC CANCE
PIPER
WASHINGTON
SOMERSET
WAYNESBURG
UNIONTOWN
NORTH SUMMIT
SOUTH SUMMIT
PENNSYLVANIA
WEST VIRGINIA
PENNSYLVANIA
MARYLAND


INDIANA
BEAVER
ALLEGHENY
CAMBRIA
WESTMORELAND
JEFFERSON
BROOKE
HANCOCK
WASHINGTON
OHIO
FAYETTE
SOMERSET
MARSHALL
GREENE
MONONGALIA
WETZEL
PRESTON
GARRETT
ALLEGANY
MINERAL
HAMPSHIRE
MARTIN
PITTSBURGH
GREENSBURG
JOHNSTOWN
WASHINGTON
WAYNESBURG
UNIONTOWN
MORGANTOWN
SOMERSET
CUMBERLAND
DRY RIDGE
MCCANCE
PIPER
NORTH SUMMIT
SOUTH SUMMIT
JENKINS
RAMSEY
MADISON
Steubenville
Burgettstown
Cornegie
Pittsburgh
Greensburg
Latrobe
New Florence
Johnstown
Ebensburg
Wheeling
Cloysville
Amity
Brownsville
Connellsville
Donegal
Somerset
Windber
Bedford
Cameron
Rogersville
Waynesburg
Masontown
Uniontown
Confluence
Meyersdale
Berlin
Littleton
Mannington
Blacksville
Morgantown
Brucelon
Accident
Grantsville
Frostburg
PENNSYLVANIA
WEST VIRGINIA
MARYLAND
WEST VIRGINIA OHIO PENNSYLVANIA
WEST VIRGINIA MARYLAND
EXPLANATION ON SE 1/4
Scale
5 0 5 10 15 20 25 Miles
40°00'
39°30'
80°30'
79°00'
78°30'
39°30'
PENNSYLVANIA GEOLOGICAL SURVEY, 4TH SERIES, BULLETIN M31
COMPILED BY CHAS. R. FETTKE 1949

SE ¼



MAP SHOWING

DEEP SAND EXPLORATION AND GAS DEVELOPMENT IN PENNSYLVANIA

PENNSYLVANIA GEOLOGICAL SURVEY

4th SERIES, BULLETIN M 31

EXPLANATION

SAND AND OTHER SYMBOLS

Dt	TULLY
Don	ONONDAGA
Dcr	ORISKANY
Dh	HELDERBERG
Ss	SALINA
Sl	LOCKPORT
Sc	ALBION
Oos	OSWEGO
Ot	TRENTON
Ob	BEEKMANTOWN
Ꞓg	GATESBURG
G	GAS

WELL SYMBOLS

- GAS WELL
- SHOW OF GAS
- OIL AND GAS
- SHOW OF OIL
- GAS WELL WITH SHOW OF OIL
- SHOW OF OIL AND GAS
- DRY HOLE
- DRILLING WELL
- NO INFORMATION

ELLISBURG — OUTLINE AND NAME OF GAS FIELD OR POOL

LIMITS OF SANDSTONE OCCURRENCE AT ORISKANY HORIZON

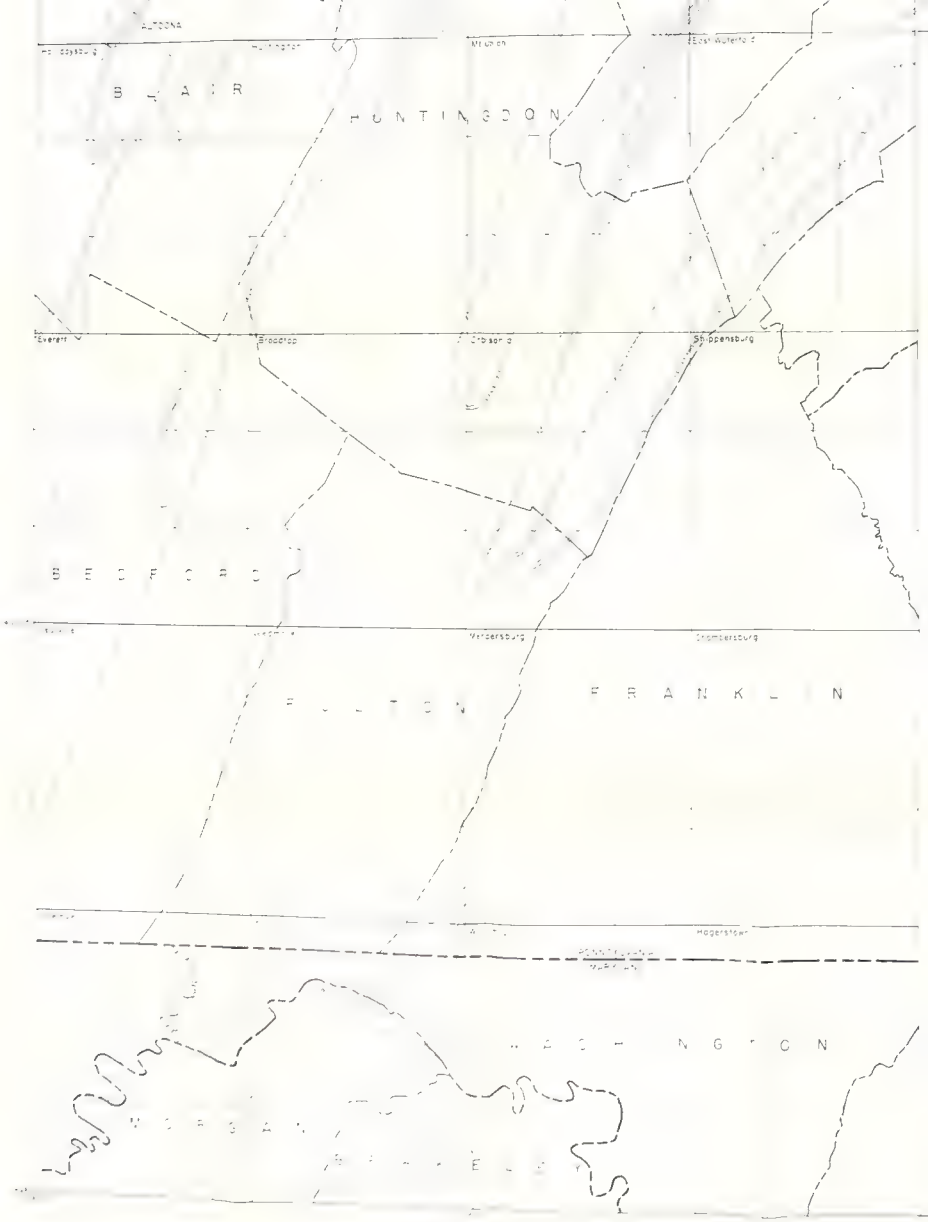
ORISKANY OUTCROP

ORISKANY SANDSTONE NOT RECOGNIZED ON OUTCROP

EXAMPLE OF SYMBOL COMBINATION

WELL 7, SALT WATER IN ORISKANY, SHOW OF GAS IN ALBION, DEEPEST FORMATION TESTED, ALBION

INDEX MAP



MAP SHOWING

DEEP SAND EXPLORATION AND GAS DEVELOPMENT

IN

PENNSYLVANIA

PENNSYLVANIA GEOLOGICAL SURVEY

4th SERIES, BULLETIN M 31

EXPLANATION

SAND AND OTHER SYMBOLS

Dt	TULLY
Don	ONONDAGA
Dor	ORISKANY
Dh	HELDERBERG
Ss	SALINA
S	LOCKPORT
Sc	ALBION
Cos	OSWEGO
Ot	TRENTON
Ob	BEEKMANTOWN
€g	GATESBURG
G	GAS
SG	SHOW OF GAS
O	OIL
SO	SHOW OF OIL
SW	SALT WATER
SSW	SHOW OF SALT WATER
Dor cb	NO SANDSTONE AT ORISKANY HORIZON

WELL SYMBOLS

- GAS WELL
- SHOW OF GAS
- OIL AND GAS
- SHOW OF OIL
- GAS WELL WITH SHOW OF OIL
- SHOW OF OIL AND GAS
- DRY HOLE
- DRILLING WELL
- NO INFORMATION

ELLISBURG — OUTLINE AND NAME OF GAS FIELD OR POOL

LIMITS OF SANDSTONE OCCURRENCE AT ORISKANY HORIZON

ORISKANY OUTCROP

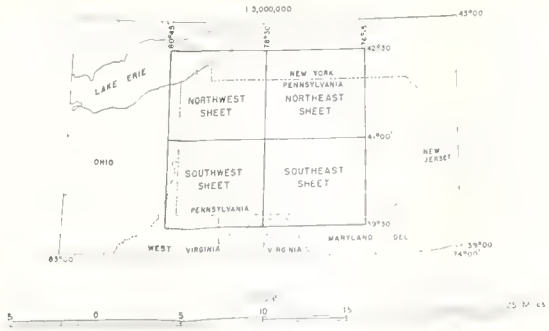
ORISKANY SANDSTONE NOT RECOGNIZED ON OUTCROP

EXAMPLE OF SYMBOL COMBINATION

WELL 7, SALT WATER IN ORISKANY, SHOW OF GAS IN ALBION, DEEPEST FORMATION TESTED, ALBION

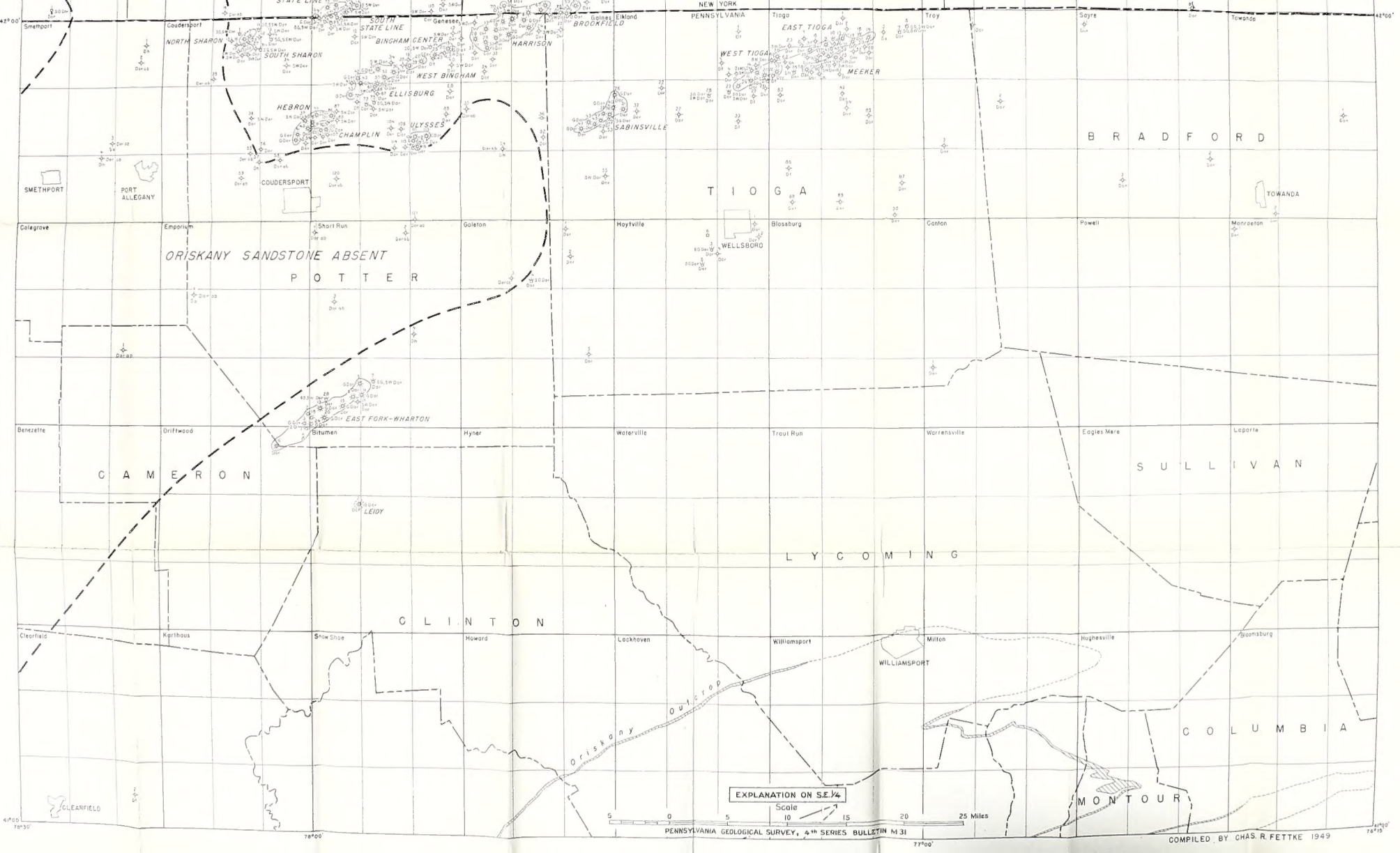
INDEX MAP

1:3,000,000



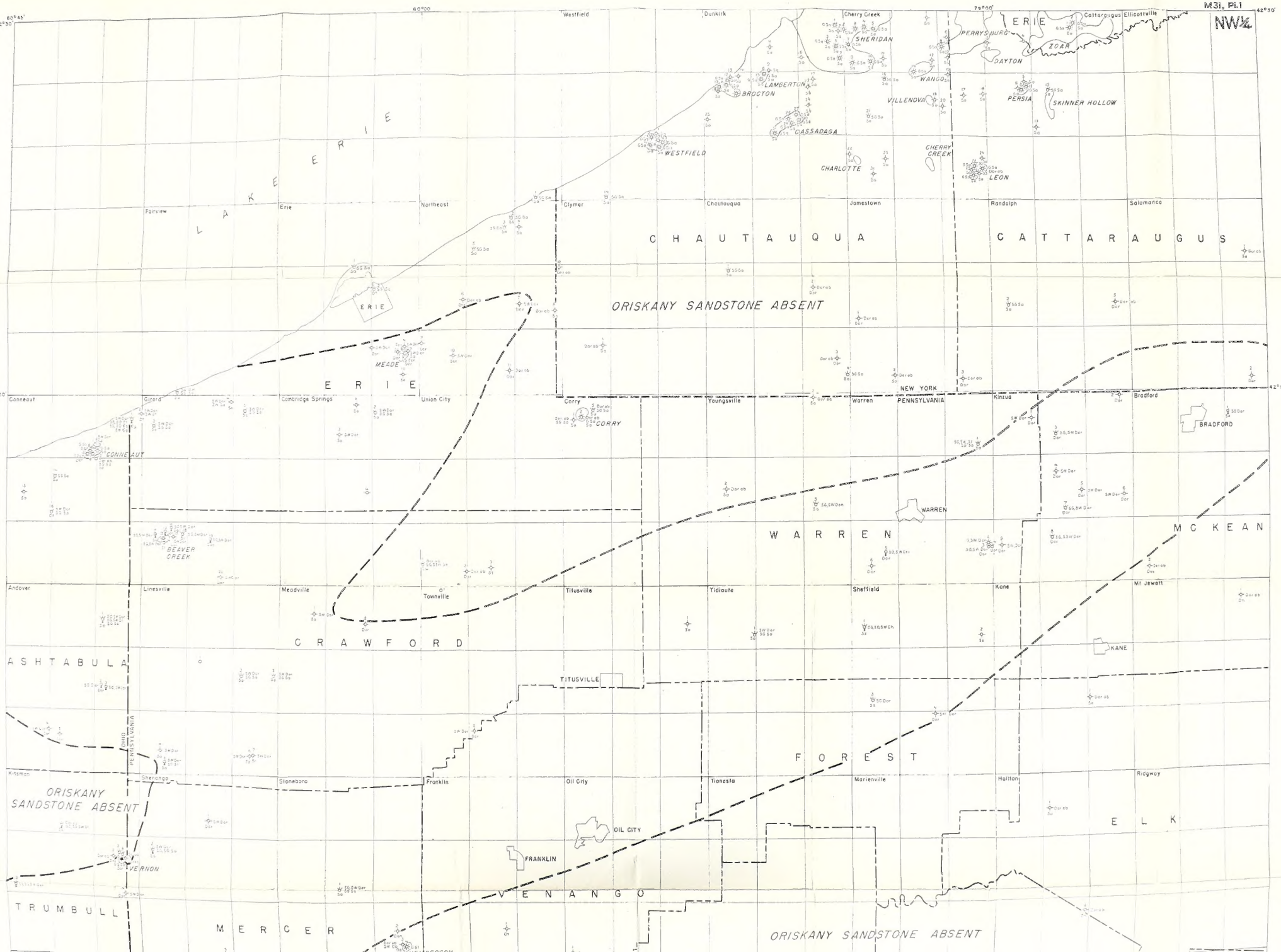
COMPILED BY CHAS. R. FETTKE 1949

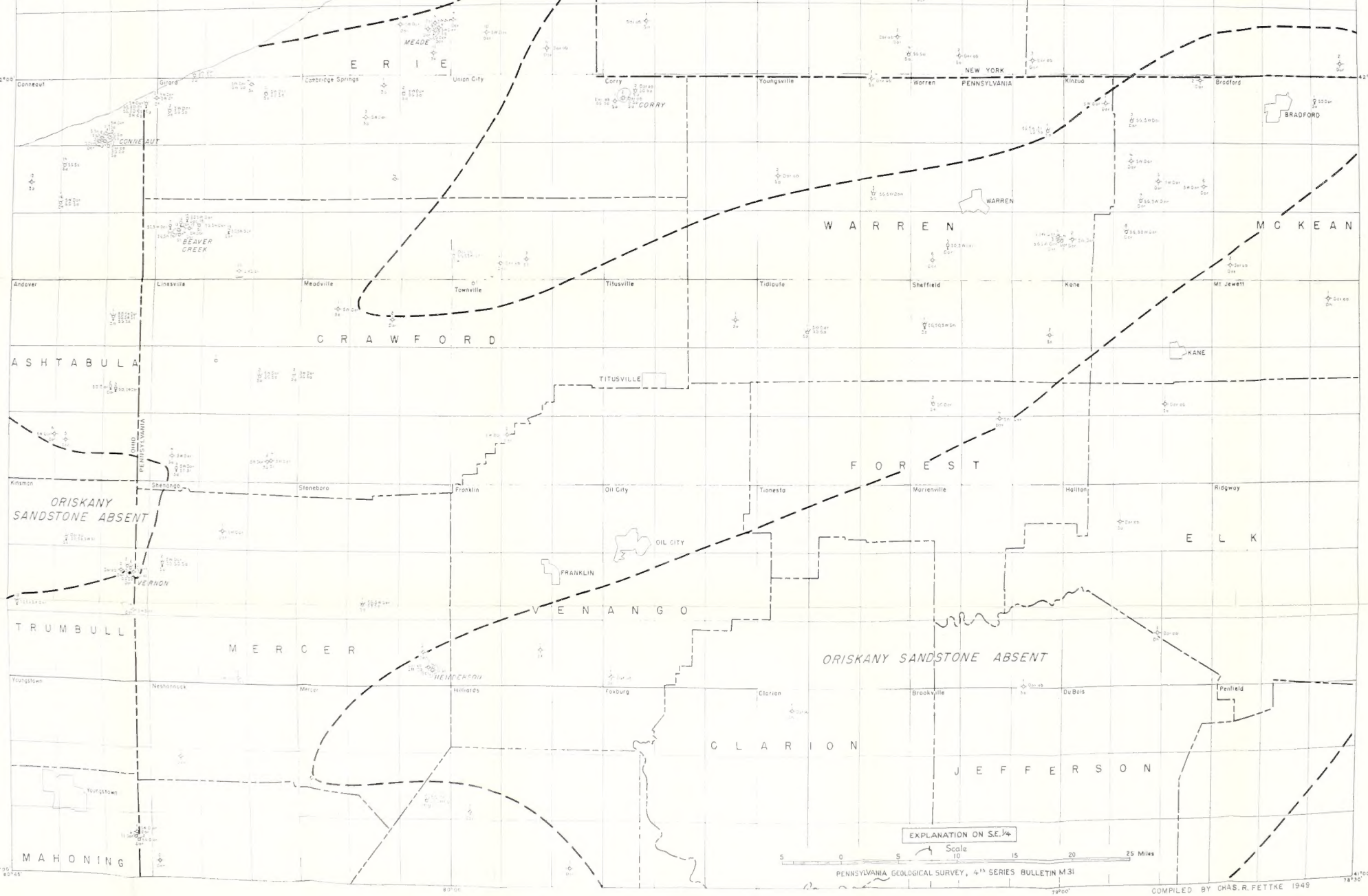
NE 4
78°30'
76°00'
77°00'
42°30'
42°00'
Franklinville
Angelica
Canaseraga
Hornell
Bath
Hammondsport
Watkins
Ithaca
Dryden
ALLEGANY
STEUBEN
SCHUYLER
TOMPKINS
ALLEN
HOWARD
WAYNE-DUNDEE
BATH
DANBY
ORISKANY SANDSTONE ABSENT
Olean
Belmont
Wellsville
Greenwood
Woodhull
Corning
Elmira
Waverly
Owego
CHEMUNG
TIOGA
GREENWOOD
JASPER
GILBERT
WELLSVILLE
INDEPENDENCE
OLEAN
WOODHULL
WEST UNION
TUSCARORA
ELMIRA
NORTH STATE LINE
BEECH HILL
NEW YORK
PENNSYLVANIA
Smethport
Coudersport
Genesee
Gaines
Elkland
Tioga
Troy
Sayre
Towanda
NORTH SHARON
SOUTH STATE LINE
BINGHAM CENTER
BROOKFIELD
HARRISON
EAST TIOGA
SOUTH SHARON
WEST TIOGA
WEST BINGHAM
MEEKER
ELLISBURG
HEBRON
ULYSSES
CHAMPLIN
SABINSVILLE
BRADFORD
SMETHPORT
PORT ALLEGANY
COUDERSPORT
TOWANDA
Colegrove
Emporium
Short Run
Galeton
Hoytville
Blossburg
Canton
Powell
Monroeton
WELLSBORO
ORISKANY SANDSTONE ABSENT
POTTER
Benezette
Driffwood
Bitumen
Hyner
Waterville
Trout Run
Warrensville
Eagles Mere
Laporte
EAST FORK-WHARTON
CAMERON
SULLIVAN
LEIDY
LYCOMING



PENNSYLVANIA GEOLOGICAL SURVEY, 4th SERIES BULLETIN M 31

COMPILED BY CHAS. R. FETTKE 1949


NW¼
ERIE
LAKE ERIE
CHAUTAUQUA
CATTARAUGUS
ORISKANY SANDSTONE ABSENT
ERIE
CRAWFORD
WARREN
MC KEAN
ASHTABULA
FOREST
ELK
VENANGO
TRUMBULL
MERCER
ORISKANY SANDSTONE ABSENT
ORISKANY SANDSTONE ABSENT
NEW YORK
PENNSYLVANIA
OHIO
PENNSYLVANIA
Westfield
Dunkirk
Cherry Creek
Cattaraugus
Ellicottville
Fairview
Erie
Northeast
Clymer
Chautauqua
Jamestown
Randolph
Salamanca
Conneaut
Girard
Cambridge Springs
Union City
Corry
Youngsville
Warren
Kinzua
Bradford
Andover
Linesville
Meadville
Townville
Titusville
Tidioute
Sheffield
Kane
Mt Jewett
Kinsman
Sheraga
Sloneboro
Franklin
Oil City
Tionesta
Marienville
Halton
Ridgway
SHERIDAN
PERRYSBURG
ZOAR
DAYTON
LAMBERTON
BROCTON
WAINGO
VILLENOVA
PERSIA
SKINNER HOLLOW
CASSADAGA
WESTFIELD
CHARLOTTE
CHERRY CREEK
LEON
ERIE
MEADE
CONNEAUT
CORRY
BRADFORD
WARREN
BEAVER CREEK
TITUSVILLE
KANE
OIL CITY
FRANKLIN
VERNON


ERIE
MEADE
Conneaut
Girard
Cambridge Springs
Union City
Corry
CORRY
Youngsville
Warren
NEW YORK
PENNSYLVANIA
Kinzua
Bradford
BRADFORD
CONNEAUT
WARREN
WARREN
MCKEAN
BEAVER CREEK
Andover
Linesville
Meadville
Townville
Titusville
Tidioute
Sheffield
Kane
Mt Jewett
CRAWFORD
KANE
ASHTABULA
TITUSVILLE
OHIO
PENNSYLVANIA
Kinsman
Shenango
Stoneboro
Franklin
Oil City
Tionesta
Marienville
Hallton
Ridgway
FOREST
ORISKANY SANDSTONE ABSENT
OIL CITY
ELK
FRANKLIN
VERNON
VENANGO
TRUMBULL
MERCER
ORISKANY SANDSTONE ABSENT
Youngstown
Neshannock
Mercer
HENDERSON
Hillsdale
Foxburg
Clarion
Brookville
DuBois
Penfield
CLARION
JEFFERSON
Youngstown
MAHONING
EXPLANATION ON S.E. 1/4
Scale
5 0 5 10 15 20 25 Miles
PENNSYLVANIA GEOLOGICAL SURVEY, 4th SERIES BULLETIN M31
COMPILED BY CHAS. R. FETTKE 1949